Cognitive Science Program

Department of Philosophy

Undergraduate Program Office
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### COGNITIVE SCIENCE FACULTY

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| **Green, Chris**            | ▪ Philosophy of psychology  
▪ Philosophical foundations of cognitive science | Psychology, HH | BSB 286 | chris@yorku.ca            | Website: [www.yorku.ca/chriso/](http://www.yorku.ca/chriso/) |
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▪ Social cognition  
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▪ Perceptual organization  
▪ Three-dimensional shape perception | Psychology, HH          | Lassonde 0009 | rfm@yorku.ca             |
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<tr>
<td>Wilkinson, Frances</td>
<td>Migraine and the Visual System, Vision and Aging, Intermediate Level Form Perception, Face Perception</td>
<td>Psychology, HH</td>
<td>Lassonde 1012D</td>
<td>33184</td>
<td><a href="mailto:franw@yorku.ca">franw@yorku.ca</a></td>
<td></td>
</tr>
<tr>
<td>Wilson, Hugh</td>
<td>Psychophysics, Visual Network Models, Cortical Neuron Models, Nonlinear Dynamics in Neuroscience</td>
<td>Biology, SC</td>
<td>Lassonde B002F</td>
<td>33140</td>
<td><a href="mailto:hrwilson@yorku.ca">hrwilson@yorku.ca</a></td>
<td></td>
</tr>
<tr>
<td>Wiseheart, Melody</td>
<td>Developmental cognitive neural science, Cognitive flexibility and executive function, Educational applications of cognitive psychology</td>
<td>Psychology, HH</td>
<td>BSB 242</td>
<td>33266</td>
<td><a href="mailto:ncepeda@yorku.ca">ncepeda@yorku.ca</a></td>
<td></td>
</tr>
</tbody>
</table>
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.

We offer both a Minor and a Major in Cognitive Science. Cognitive Science majors, as well as minors, 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 ground-breaking work in the field of Cognitive Science.

Why Major in Cognitive Science?

As a Cognitive Science major or minor, 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 and questions 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, Neuroscience, Psychology, Linguistics, Computer Science, Business, and Law.

Recent Cognitive Science graduates provide testimonials about their career opportunities and graduate studies at: https://cogs.phil.laps.yorku.ca/students/alumni/

Why Minor in Cognitive Science?

We also offer a minor in Cognitive Science. The Honours Minor BA program described may be combined with any approved Honours BA program that offers a major/minor option in the Faculties of Environmental Studies, Fine Arts, Health, Liberal Arts and Professional Studies, or Science and Engineering. This enables you to add a Cognitive Science component to your Major BA program.

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://cogs.phil.laps.yorku.ca/speaker-series/ 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 psycholinguistics
- 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: https://yorku.collegiatelink.net/organization/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 requirements checklist to help you plan your path through the program at the program website: [http://www.yorku.ca/laps/phil/cogs/index.html](http://www.yorku.ca/laps/phil/cogs/index.html). (Look under the Courses tab.) You should also consult individual course listings to determine the necessary prerequisites for each course in the program. Students will be responsible for making sure that all necessary prerequisites have been met for each course.

Recommended Courses for 1st Year Students

First year students are advised to fulfill at least some of their General Education requirements. In addition, in their first or second year, Cognitive Science majors are advised to enrol in: PSYC 1010, COGS 2160, PHIL 2240, and either LING 1000 or COGS/LING 2800. Please consult with LAP&S student advising services ([http://laps.yorku.ca/student-resources/student-services/academic-advising-services/](http://laps.yorku.ca/student-resources/student-services/academic-advising-services/)) or the program coordinator for further advice about course selection.

LING 1000 vs. LING 2800

Everyone needs to take one of these courses, and most students opt for LING 2800 since it’s only 3.0 credits (as opposed to 6.0) and was specially designed for cognitive science majors. In fact, LING 2800 serves in place of LING 1000 as a prerequisite for further linguistics courses for cognitive science majors only.

Other LING Courses

As a cognitive science major, some of the prerequisites for upper-level linguistics courses are waived. For further information, please see the FAQ “I heard that COGS majors don't need to meet all of the usual prerequisites for linguistics courses. Is that true?” at [https://cogs.phil.laps.yorku.ca/about/frequently-asked-questions/](https://cogs.phil.laps.yorku.ca/about/frequently-asked-questions/).

COGS 4750 vs. COGS 4901

You must take either COGS 4901 or COGS 4750 in your final year in the program (usually your fourth year). Most students take 4901, which is a yearlong seminar in which students are coached to write a senior thesis on a topic of their choosing. 4750 is for students who want to do an independent thesis with a specific supervisor.
SPECIALIZED HONOURS BA PROGRAM

Honours Major BA in Cognitive Science

All students must satisfy the General Education/Foundations requirement.

A. Students must complete all of the following Core Courses (30 or 33 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Weight</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP/LING 1000</td>
<td>6.0</td>
<td>Introduction to Linguistics OR</td>
</tr>
<tr>
<td>AP/COGS/LING 2800</td>
<td>3.0</td>
<td>Language and Mind</td>
</tr>
<tr>
<td>HH/PSYC 1010</td>
<td>6.0</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>HH/PSYC 2260</td>
<td>3.0</td>
<td>Cognition</td>
</tr>
<tr>
<td>AP/COGS/PHIL 2160</td>
<td>3.0</td>
<td>Minds, Brains, and Machines</td>
</tr>
<tr>
<td>AP/PHIL 2240</td>
<td>3.0</td>
<td>Introduction to the Philosophy of Mind</td>
</tr>
<tr>
<td>AP/PHIL 3260</td>
<td>3.0</td>
<td>Philosophy of Psychology</td>
</tr>
<tr>
<td>AP/PHIL 3750</td>
<td>3.0</td>
<td>Philosophy of Artificial Intelligence</td>
</tr>
<tr>
<td>AP/COGS 4750</td>
<td>6.0</td>
<td>Honours Thesis in Cognitive Science OR</td>
</tr>
<tr>
<td>AP/COGS 4901</td>
<td>6.0</td>
<td>Honours Seminar in Cognitive Science (but not both)</td>
</tr>
</tbody>
</table>

B. Students must complete 6 credits chosen from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Weight</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 1022</td>
<td>3.0</td>
<td>Programming for Mobile Computing</td>
</tr>
<tr>
<td>LE/EECS 2001</td>
<td>3.0</td>
<td>Introduction to the Theory of Computation</td>
</tr>
<tr>
<td>LE/EECS 2030</td>
<td>3.0</td>
<td>Advanced Object Oriented Programming</td>
</tr>
<tr>
<td>AP/ITEC 1000</td>
<td>3.0</td>
<td>Introduction to Information Technologies</td>
</tr>
<tr>
<td>AP/ITEC 1010</td>
<td>3.0</td>
<td>Information and Organizations</td>
</tr>
<tr>
<td>AP/LING 2120</td>
<td>3.0</td>
<td>Phonology 1: Analysis</td>
</tr>
<tr>
<td>AP/LING 2130</td>
<td>3.0</td>
<td>Morphology 1: Analysis</td>
</tr>
<tr>
<td>AP/LING 2140</td>
<td>3.0</td>
<td>Syntax 1: Analysis</td>
</tr>
<tr>
<td>AP/PHIL 2100</td>
<td>3.0</td>
<td>Introduction to Logic</td>
</tr>
<tr>
<td>HH/PSYC 2020</td>
<td>6.0</td>
<td>Statistical Methods I and II</td>
</tr>
<tr>
<td>HH/PSYC 2021</td>
<td>3.0</td>
<td>Statistical Methods I</td>
</tr>
<tr>
<td>HH/PSYC 2030</td>
<td>3.0</td>
<td>Introduction to Research Methods</td>
</tr>
</tbody>
</table>

C. Students must complete 9 credits chosen from the following, including at least two different disciplines (departments):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Weight</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 2011</td>
<td>3.0</td>
<td>Fundamentals of Data Structures</td>
</tr>
<tr>
<td>LE/EECS 3401</td>
<td>3.0</td>
<td>Introduction to Artificial Intelligence and Logic Programming</td>
</tr>
<tr>
<td>AP/ITEC 3230</td>
<td>3.0</td>
<td>Designing User Interfaces</td>
</tr>
<tr>
<td>AP/LING 3120</td>
<td>3.0</td>
<td>Phonology 2: Theory</td>
</tr>
<tr>
<td>AP/LING 3140</td>
<td>3.0</td>
<td>Syntax 2: Theory</td>
</tr>
<tr>
<td>AP/LING 3150</td>
<td>3.0</td>
<td>Semantics</td>
</tr>
<tr>
<td>AP/LING 3210</td>
<td>3.0</td>
<td>First Language Acquisition</td>
</tr>
<tr>
<td>AP/LING 3220</td>
<td>3.0</td>
<td>Psycholinguistics</td>
</tr>
<tr>
<td>AP/PHIL 3265</td>
<td>3.0</td>
<td>Philosophy of Mind</td>
</tr>
<tr>
<td>HH/PSYC 2110</td>
<td>3.0</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>HH/PSYC 2120</td>
<td>3.0</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>HH/PSYC 2220</td>
<td>3.0</td>
<td>Sensation and Perception I</td>
</tr>
<tr>
<td>Course Code</td>
<td>Weight</td>
<td>Course Title</td>
</tr>
<tr>
<td>--------------</td>
<td>--------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>HH/PSYC 2240</td>
<td>3.0</td>
<td>Biological Basis of Behaviour</td>
</tr>
<tr>
<td>HH/PSYC 3250</td>
<td>3.0</td>
<td>Neural Basis of Behaviour</td>
</tr>
<tr>
<td>HH/PSYC 3265</td>
<td>3.0</td>
<td>Memory</td>
</tr>
<tr>
<td>HH/PSYC 3280</td>
<td>3.0</td>
<td>Animal Behaviour</td>
</tr>
<tr>
<td>HH/PSYC 3290</td>
<td>3.0</td>
<td>Psycholinguistics</td>
</tr>
</tbody>
</table>

D. Students must complete 6 credits chosen from the following, and including at least two different disciplines (departments):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Weight</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE/EECS 4401</td>
<td>3.0</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>LE/EECS 4421</td>
<td>3.0</td>
<td>Introduction to Robotics</td>
</tr>
<tr>
<td>LE/EECS 4422</td>
<td>3.0</td>
<td>Computer Vision</td>
</tr>
<tr>
<td>LE/EECS 4441</td>
<td>3.0</td>
<td>Human-Computer Interaction</td>
</tr>
<tr>
<td>AP/LING 4120</td>
<td>3.0</td>
<td>Advanced Phonology</td>
</tr>
<tr>
<td>AP/LING 4140</td>
<td>3.0</td>
<td>Advanced Syntax</td>
</tr>
<tr>
<td>AP/LING 4150</td>
<td>3.0</td>
<td>Topics in the Syntax-Semantics Interface</td>
</tr>
<tr>
<td>AP/LING 4230</td>
<td>3.0</td>
<td>Language and the Brain</td>
</tr>
<tr>
<td>AP/LING 4250</td>
<td>3.0</td>
<td>The Evolution of Language</td>
</tr>
<tr>
<td>AP/PHIL 3200</td>
<td>3.0</td>
<td>Philosophy of Language</td>
</tr>
<tr>
<td>AP/PHIL 3635</td>
<td>3.0</td>
<td>Philosophy of Neuroscience</td>
</tr>
<tr>
<td>AP/PHIL 4080</td>
<td>3.0</td>
<td>Seminar in the Philosophy of Mind</td>
</tr>
<tr>
<td>AP/PHIL 4082</td>
<td>3.0</td>
<td>Philosophy of Cognitive Science</td>
</tr>
<tr>
<td>AP/PHIL 4083</td>
<td>3.0</td>
<td>Philosophy of Clinical Psychology</td>
</tr>
<tr>
<td>AP/PHIL 4084</td>
<td>3.0</td>
<td>Animals and the Philosophy of Mind</td>
</tr>
<tr>
<td>HH/PSYC 4010</td>
<td>3.0/6.0</td>
<td>Seminar in Developmental Psychology</td>
</tr>
<tr>
<td>HH/PSYC 4020</td>
<td>3.0/6.0</td>
<td>Seminar in Social Psychology</td>
</tr>
<tr>
<td>HH/PSYC 4080</td>
<td>6.0</td>
<td>Neuropsychology of Abnormal Behaviour</td>
</tr>
<tr>
<td>HH/PSYC 4285</td>
<td>3.0</td>
<td>Seminar in Comparative Cognition</td>
</tr>
<tr>
<td>HH/PSYC 4230</td>
<td>3.0</td>
<td>Human Performance in Systems</td>
</tr>
<tr>
<td>HH/PSYC 4260</td>
<td>3.0</td>
<td>Seminar in Sensation and Perception</td>
</tr>
<tr>
<td>HH/PSYC 4270</td>
<td>3.0</td>
<td>Seminar in Memory and Cognition</td>
</tr>
</tbody>
</table>

**UNIVERSITY-WIDE RESIDENCE REQUIREMENT:** A minimum of 30 course credits and at least half (50 per cent) of the course credits required in each undergraduate degree program major/minor must be taken at York University.

**UPPER LEVEL REQUIREMENT:** At least **36 credits** at the 3000 or 4000 level, including at least **18 credits** at the 4000 level.

**MAJOR CREDITS:** a minimum of 54 credits. Note that students who opt to complete AP/LING 2800 3.0 must complete an additional 3 credits in the major beyond the requirements listed above in order to satisfy this requirement.

**COURSE PREREQUISITES:** Please see the complete listing of courses for all course prerequisites, cross-listed courses and course credit exclusions and substitutions.

**CREDITS OUTSIDE THE MAJOR:** at least 18 credits.

**ADVICE #1:** Some courses have prerequisites that are not part of the major. This is especially true for EECS courses. For example, EECS 1022 has EECS 1012 as a prerequisite, and EECS 1012 in turn has its own math prerequisites. For any course you want to take, make sure to check its prerequisites.

**ADVICE #2:** Part D requires upper-level courses from two different disciplines. Since upper-level courses tend to have many prerequisites, you need to think ahead in order to satisfy this requirement.
Honours Minor BA in Cognitive Science

The Honours Minor in Cognitive Science comprises at least 30 credits, distributed as follows:

A. Students must take all of the following courses (18 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COGS/LING 2800</td>
<td>3.0</td>
<td>Language and Mind</td>
</tr>
<tr>
<td>PSYC 1010</td>
<td>6.0</td>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>COGS/PHIL 2160</td>
<td>3.0</td>
<td>Minds, Brains, and Machines</td>
</tr>
<tr>
<td>PHIL 2240</td>
<td>3.0</td>
<td>Introduction to the Philosophy of Mind</td>
</tr>
<tr>
<td>PSYC 2260</td>
<td>3.0</td>
<td>Cognition</td>
</tr>
</tbody>
</table>

B. Students must take 6 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 3260</td>
<td>3.0</td>
<td>Philosophy of Psychology</td>
</tr>
<tr>
<td>PHIL 3265</td>
<td>3.0</td>
<td>Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 3635</td>
<td>3.0</td>
<td>Philosophy of Neuroscience</td>
</tr>
<tr>
<td>COGS/PHIL 3750</td>
<td>3.0</td>
<td>Philosophy of Artificial Intelligence</td>
</tr>
</tbody>
</table>

C. Students must take 6 credits from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 4080</td>
<td>3.0</td>
<td>Seminar in the Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 4082</td>
<td>3.0</td>
<td>Philosophy of Cognitive Science</td>
</tr>
<tr>
<td>PHIL 4083</td>
<td>3.0</td>
<td>Philosophy of Clinical Psychology</td>
</tr>
<tr>
<td>PHIL 4084</td>
<td>3.0</td>
<td>Animals &amp; the Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 4085</td>
<td>3.0</td>
<td>Philosophy of Psychiatry</td>
</tr>
</tbody>
</table>
HONOURS PROGRAMS/DEGREE OPTIONS

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 Science.

Honours Minor in Cognitive Science BA Program
The Honours Minor BA program described may be combined with any approved Honours BA program that offers a major/minor option in the Faculties of Environmental Studies, Fine Arts, Health, Liberal Arts and Professional Studies, or Science and Engineering. For further details on requirements, refer to the listings for specific Honours programs that may be pursued jointly with other Faculties.
Courses

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

A. Core Courses (Major 30 or 33 Credits, Minor 18 credits)  Pages: 19 - 25

B. Lower-Level Computer Science, Information Technology, Linguistics, Psychology, Philosophy (6 credits)  Pages: 26 - 42

C. Mid-level Computer Science, Information Technology, Linguistics, Psychology, Philosophy (9 credits)  Pages: 43 - 52

D. Upper-level Computer Science, Linguistics, Psychology, Philosophy (6 credits)  Pages: 53 - 60

PLEASE NOTE:

THE FOLLOWING COURSE DESCRIPTIONS ARE ACCURATE AS OF JUNE 17, 2020

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.

COURSE WITH AN ASTERISK (*) INDICATES THAT THERE IS A TUTORIAL/LAB.
A. CORE COURSES

Students must complete the following (30 or 33 credits):

AP/LING 1000 6.0A (Y) – INTRODUCTION TO LINGUISTICS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday*
TIME: 10:30am – 12:30pm
PREREQUISITE: None

DESCRIPTION: Examines fundamental principles of language structure and interpretation. The focus is on the core areas, specifically, phonology, morphology, and syntax, but a brief survey of phonetics, semantics, language acquisition, historical linguistics, and language variation is also offered. Data and analytic exercises from a wide range of the world's languages is used for illustration.

AP/LING 1000 6.0B (Y) – INTRODUCTION TO LINGUISTICS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday*
TIME: 2:30pm – 4:30pm
PREREQUISITE: None

DESCRIPTION: See course description for AP/LING 6.0A (Y).

AP/LING/COGS 2800 3.0M (W) – LANGUAGE AND MIND
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday*
TIME: 2:30pm – 4:30pm
PREREQUISITE: None. PRIOR TO FALL 2009: AS/LING 1000 6.0 or AS/PSYC 1010 6.0 or permission of the department.

DESCRIPTION: Explores how the structures of human language reflect the architecture of the human mind. Linguistics issues are related to topics in vision, philosophy, and psychology, among others. The course focuses primarily on internalist views of language, as exemplified in the generative tradition.
HH/PSYC 1010 6.0 I (F) – INTRODUCTION TO PSYCHOLOGY  
INSTRUCTOR: TBA  
OFFICE: TBA  
DAY: Monday and Wednesday  
TIME: 8:30am – 11:30am  
PREREQUISITE: None  

COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 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 course is required for all students who intend to pursue additional HH/PSYC courses the 2000-, 3000- and 4000- levels. Students must pass the course with a minimum grade of C in order to pursue further studies in psychology.

HH/PSYC 1010 6.0A (Y) – INTRODUCTION TO PSYCHOLOGY  
INSTRUCTOR: TBA  
OFFICE: TBA  
DAY: Monday  
TIME: 7:00pm - 10:00pm  
PREREQUISITE: None  

COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0  

DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

HH/PSYC 1010 6.0B (Y) – INTRODUCTION TO PSYCHOLOGY  
INSTRUCTOR: TBA  
OFFICE: TBA  
DAY: Thursday  
TIME: 11:30am - 2:30pm  
PREREQUISITE: None  

COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0  

DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

HH/PSYC 1010 6.0C (Y) – INTRODUCTION TO PSYCHOLOGY  
INSTRUCTOR: TBA  
OFFICE: TBA  
TIME: ONLINE  
PREREQUISITE: None  

COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0  

DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

OTHER INFORMATION: 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 and distance students, students whose schedules do not permit them to attend classes on campus on a regular basis, and students who are not Psychology majors but who want to take one or more Psychology courses.
HH/PSYC 1010 6.0D (Y) – INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm - 5:30pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

HH/PSYC 1010 6.0E (Y) – INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday
TIME: 2:30pm - 5:30pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

HH/PSYC 1010 6.0F (Y) – INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 4:00pm – 7:00pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

HH/PSYC 1010 6.0G (Y) – INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 1:00pm - 2:30pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).

HH/PSYC 1010 6.0H (Y) – INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Friday
TIME: 2:30pm - 5:30pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).
HH/PSYC 1010 6.0M (W) – INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 11:30am - 2:30pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).
ACCESS SPECIFICATIONS: Reserved for PSYC Majors (Winter). Enrollment not - open until November/December.

HH/PSYC 1010 6.0N (W) - INTRODUCTION TO PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 4:00m – 7:00pm
PREREQUISITE: None
COURSE CREDIT EXCLUSION: GL/PSYC 2510 6.0; PRIOR TO SUMMER 2002: AK/PSYC 2410 6.0
DESCRIPTION: See course description for HH/PSYC 1010 6.0I (F).
ACCESS SPECIFICATIONS: Reserved for PSYC Majors (Winter). Enrollment not - open until November/December.

HH/PSYC 2260 3.0A (F) – COGNITION
INSTRUCTOR: TBA
OFFICE: TBA
DAY: ONLINE
TIME: ONLINE
PREREQUISITE: AK/AS/HH/SC/PSYC 1010 6.00 with a minimum grade of C.
COURSE CREDIT EXCLUSION: AK/PSYC 3135 3.00 (prior to Summer 2002), HH/PSYC 3260 3.00, GL/PSYC 3370 3.00
PREVIOUSLY OFFERED AS: HH/PSYC 3260 3.00.
DESCRIPTION: A survey of higher-order cognitive processes in humans. Topics include attention, memory, problem solving, thinking and language.

HH/PSYC 2260 3.0M (W) – COGNITION
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Friday
TIME: 2:30pm – 5:30pm
PREREQUISITE: AK/AS/HH/SC/PSYC 1010 6.00 with a minimum grade of C.
COURSE CREDIT EXCLUSION: AK/PSYC 3135 3.00 (prior to Summer 2002), HH/PSYC 3260 3.00, GL/PSYC 3370 3.00
PREVIOUSLY OFFERED AS: HH/PSYC 3260 3.00.
DESCRIPTION: See course description for HH/PSYC 2260 3.0A (F).
HH/PSYC 2260 3.0N (W) – COGNITION
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Friday
TIME: 8:30am – 11:30am
PREREQUISITE: AK/AS/HH/SC/PSYC 1010 6.00 with a minimum grade of C.
COURSE CREDIT EXCLUSION: AK/PSYC 3135 3.00 (prior to Summer 2002), HH/PSYC 3260 3.00, GL/PSYC 3370 3.00
PREVIOUSLY OFFERED AS: HH/PSYC 3260 3.00

DESCRIPTION: See course description for HH/PSYC 2260 3.0A (F).

AP/COGS/PHIL 2160 3.0 A (F) – MINDS, BRAINS, AND MACHINES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday*
TIME: 10:30am - 11:30am
PREREQUISITE: None.
COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AK/AS/PHIL 2160 3.0

DESCRIPTION: An introduction to the study of human cognition and the interdisciplinary field of cognitive science. 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?

AP/COGS/PHIL 2160 3.0M (W) – MINDS, BRAINS, AND MACHINES
INSTRUCTOR: Kevin Lande
OFFICE: S443
DAY: Monday and Wednesday*
TIME: 10:30am - 11:30am
PREREQUISITE: None.
COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AK/AS/PHIL 2160 3.0

DESCRIPTION: An introduction to the study of human cognition and the interdisciplinary field of cognitive science. 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?

AP/PHIL 2240 3.0M (W) – INTRODUCTION TO THE PHILOSOPHY OF MIND
INSTRUCTOR: Alexander Manafu
OFFICE: S414
DAY: Tuesday and Thursday
TIME: 1:00pm – 2:30pm
COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AS/PHIL 2240 3.0, AK/PHIL 2240 3.0.

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 behaviourism, the identity theory, machine and causal functionalism, instrumentalism, eliminativism, and emergentism.
AP/PHIL 3260 3.0A (F) – PHILOSOPHY OF PSYCHOLOGY
INSTRUCTOR: Sam Clarke
OFFICE: TBA
DAY: Monday
TIME: 2:30pm – 5:30pm
PREREQUISITE: AP/PHIL 2160 3.0 or AP/PHIL 2240 3.0. PRIOR TO FALL 2009: At least six credits in philosophy, including one of AK/AS/PHIL 2160 3.0 or AK/AS/PHIL 2240 3.0
COURSE CREDIT EXCLUSION: None. PRIOR TO SUMMER 2007: AK/PHIL 3260 3.0, AS/PHIL 3260 3.0

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 3260 3.0M (W) – PHILOSOPHY OF PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE:
DAY: Monday
TIME: 2:30pm – 5:30pm
PREREQUISITE: AP/PHIL 2160 3.0 or AP/PHIL 2240 3.0. PRIOR TO FALL 2009: At least six credits in philosophy, including one of AK/AS/PHIL 2160 3.0 or AK/AS/PHIL 2240 3.0
COURSE CREDIT EXCLUSION: None. PRIOR TO SUMMER 2007: AK/PHIL 3260 3.0, AS/PHIL 3260 3.0

DESCRIPTION: See course description for AP/PHIL 3260 3.0A (F).

AP/COGS/PHIL 3750 3.0M (W) – PHILOSOPHY OF ARTIFICIAL INTELLIGENCE
INSTRUCTOR: Sam Clarke
OFFICE:
DAY: Thursday
TIME: 2:30pm – 5:30pm
PREREQUISITE: 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/PHIL 2240 3.00, AS/PHIL 2240 3.00 or AK/AS/PHIL 2160 3.00.
COURSE CREDIT EXCLUSION: AK/PHIL 3001 3.00, AS/PHIL 3750 3.00.

DESCRIPTION: An introduction to philosophical issues in Artificial Intelligence (AI). The goal is for students to be able to gain basic understanding of the cognitive architectures used by AI programmers, and reflect critically on research in AI from a philosophical perspective.

AP/COGS 4750 6.0A (Y) – HONOURS THESIS IN COGNITIVE SCIENCE
INSTRUCTOR: Students must arrange a faculty thesis supervisor, subject to departmental approval.
COURSE DIRECTOR: Kristin Andrews
OFFICE: TBA
DAY / TIME: Decided upon by student and instructor

PREREQUISITE: Permission of the course director and students must be Cognitive Science majors who have successfully completed at least 84 credits in total (4th Year).

COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AS/PHIL 4750 6.0

DESCRIPTION: Students carry out an individual piece of research in cognitive science in consultation with a thesis supervisor and write a thesis.
AP/COGS 4901 6.0A (Y) – HONOURS SEMINAR IN COGNITIVE SCIENCE
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
PREREQUISITE: Students must be Cognitive Science majors and have successfully completed at least 84 credits in total.

COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2010: AP/COGS 4900 6.0. PRIOR TO FALL 2009: AS/COGS 4900 6.0.

DESCRIPTION: This course is the capstone for students in the cognitive science honours BA program. Students will obtain a greater understanding of the work that cognitive scientists do, and how the theoretical background can be implemented in solving real-world problems and uncovering additional facts about the world. Students will be expected to produce a major work in cognitive science as well as demonstrate their knowledge of the applications of cognition science to many different areas of academia and industry.
Note: Students must be Cognitive Science majors and have successfully completed a minimum of 84 credits in total.

AP/COGS 4901 6.0B (Y) – HONOURS SEMINAR IN COGNITIVE SCIENCE
INSTRUCTOR: Kristin Andrews
OFFICE:
DAY: Wednesday
TIME: 11:30am – 2:30pm
PREREQUISITE: Students must be Cognitive Science majors and have successfully completed at least 84 credits in total (4th Year).

COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2010: AP/COGS 4900 6.0. PRIOR TO FALL 2009: AS/COGS 4900 6.0.

DESCRIPTION: This course is the capstone for students in the cognitive science honours BA program. Students will obtain a greater understanding of the work that cognitive scientists do, and how the theoretical background can be implemented in solving real-world problems and uncovering additional facts about the world. Students will be expected to produce a major work in cognitive science as well as demonstrate their knowledge of the applications of cognition science to many different areas of academia and industry.
Note: Students must be Cognitive Science majors and have successfully completed a minimum of 84 credits in total.
LE/EECS 1022 3.0A (F) – PROGRAMMING FOR MOBILE COMPUTING

INSTRUCTOR: TBA
OFFICE: TBA
DAY: Friday*
TIME: 2:30pm – 4:30pm
PREREQUISITE: LE/EECS 1012 3.00.
COURSE CREDIT EXCLUSION: LE/EECS 1021 3.00, LE/EECS 1020 3.00 (prior to Fall 2014), LE/CSE 1020 3.00 (prior to Fall 2014), SC/CSE 1020 3.00 (prior to Summer 2013), AP/ITEC 1620 3.00.

DESCRIPTION: Provides a first exposure to object-oriented programming and enhances student understanding of key computing skills such as reasoning about algorithms, designing user interfaces, and working with software tools. It uses problem-based approach to expose the underlying concepts and an experiential laboratory to implement them. A mature mobile software infrastructure (such as Java and the Android programming environment) is used to expose and provide context to the underlying ideas. Laboratory exercises expose students to a range of real-world problems with a view of motivating computational thinking and grounding the material covered in lectures.

LE/EECS 1022 3.0M (W) – PROGRAMMING FOR MOBILE COMPUTING

INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday*
TIME: 2:30pm – 4:30pm
PREREQUISITE: LE/EECS 1012.
COURSE CREDIT EXCLUSION: LE/EECS 1021 3.00, LE/EECS 1020 3.00 (prior to Fall 2014), LE/CSE 1020 3.00 (prior to Fall 2014), SC/CSE 1020 3.00 (prior to Summer 2013), AP/ITEC 1620 3.00.

DESCRIPTION: See course description for LE/EECS 1022 3.0A (F)

LE/EECS 1022 3.0N (W) – PROGRAMMING FOR MOBILE COMPUTING

INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday*
TIME: 2:30pm – 4:30pm
PREREQUISITE: LE/EECS 1012 3.00.
COURSE CREDIT EXCLUSION: LE/EECS 1021 3.00, LE/EECS 1020 3.00 (prior to Fall 2014), LE/CSE 1020 3.00 (prior to Fall 2014), SC/CSE 1020 3.00 (prior to Summer 2013), AP/ITEC 1620 3.00.

DESCRIPTION: See course description for LE/EECS 1022 3.0A (F)
LE/EECS 1022 3.00 (W) – PROGRAMMING FOR MOBILE COMPUTING
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday*
TIME: 10:30am – 12:30pm
PREREQUISITE: LE/EECS 1012 3.00.
COURSE CREDIT EXCLUSION: LE/EECS 1020 3.00 (prior to Fall 2014), LE/CSE 1020 3.00 (prior to Fall 2014), SC/CSE 1020 3.00 (prior to Summer 2013), AP/ITEC 1620 3.00.
DESCRIPTION: See course description for LE/EECS 1022 3.0A (F)

LE/EECS 2001 3.0A (F) – INTRODUCTION TO THE THEORY OF COMPUTATION
INSTRUCTOR: Zbigniew Stachniak
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 10:00am – 11:30am
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1021 3.00 or LE/EECS 1022 3.00 or LE/EECS 1720 3.00 or LE/EECS 1030 3.00; LE/EECS 1028 3.00 or SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2001 3.00. PRIOR TO SUMMER 2013: SC/CSE 2001 3.00
DESCRIPTION: Introduction to the theory of computing, including automata theory, formal languages and Turing machines; theoretical models and their applications in various fields of computer science. The emphasis is on practical applications of the theory and concepts rather than formal rigour.

LE/EECS 2001 3.0B (F) – INTRODUCTION TO THE THEORY OF COMPUTATION
INSTRUCTOR: George Tourlakis
OFFICE: TBA
DAY: Monday and Wednesday*
TIME: 1:00pm – 2:30pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1021 3.00 or LE/EECS 1022 3.00 or LE/EECS 1720 3.00 or LE/EECS 1030 3.00; LE/EECS 1028 3.00 or SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2001 3.00. PRIOR TO SUMMER 2013: SC/CSE 2001 3.00
DESCRIPTION: See course description for LE/EECS 2001 3.0A (F).

LE/EECS 2001 3.0C (F) – INTRODUCTION TO THE THEORY OF COMPUTATION
INSTRUCTOR: Jeffrey A Edmonds
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 2:30pm – 4:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1021 3.00 or LE/EECS 1022 3.00 or LE/EECS 1720 3.00 or LE/EECS 1030 3.00; LE/EECS 1028 3.00 or SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2001 3.00. PRIOR TO SUMMER 2013: SC/CSE 2001 3.00
DESCRIPTION: See course description for LE/EECS 2001 3.0A (F).
LE/EECS 2001 3.0M (W) – INTRODUCTION TO THE THEORY OF COMPUTATION
INSTRUCTOR: Ruth Umer
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 2:30pm – 4:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1021 3.00 or LE/EECS 1022 3.00 or LE/EECS 1720 3.00 or LE/EECS 1030 3.00; LE/EECS 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2001 3.00. PRIOR TO SUMMER 2013: SC/CSE 2001 3.00

DESCRIPTION: See course description for LE/EECS 2001 3.0A (F).

LE/EECS 2001 3.0N (W) – INTRODUCTION TO THE THEORY OF COMPUTATION
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday*
TIME: 1:00pm – 2:30pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1021 3.00 or LE/EECS 1022 3.00 or LE/EECS 1720 3.00 or LE/EECS 1030 3.00; LE/EECS 1028 3.00 or SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2001 3.00. PRIOR TO SUMMER 2013: SC/CSE 2001 3.00

DESCRIPTION: See course description for LE/EECS 2001 3.0A (F).

LE/EECS 2030 3.0A (F) – ADVANCED OBJECT ORIENTED PROGRAMMING
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 4:00pm – 5:30pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS1021 3.00 or LE/EECS 1020 (prior to Fall 2015) 3.00 or LE/EECS1022 3.00 or LE/EECS 1720 3.00.
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00.
PREVIOUSLY OFFERED AS: LE/EECS1030 3.00, LE/CSE 1030 3.00.

DESCRIPTION: This course continues the separation of concern theme introduced in LE/EECS 1020 3.00 and LE/EECS1021 3.00. While 1020 and 1021 focuses 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 (non-utilities, delegation within the class definition, documentation and API generation, implementing contracts), aggregations (implementing aggregates versus compositions and implementing collections), inheritance hierarchies (attribute visibility, overriding methods, abstract classes versus interfaces, inner classes); applications of aggregation and inheritance in concurrent programming and event-driven programming; recursion; searching and sorting including quick and merge sorts); stacks and queues; linked lists; binary trees.
LE/EECS 2030 3.0B (F) – ADVANCED OBJECT ORIENTED PROGRAMMING
INSTRUCTOR: Matthew Kyan
OFFICE: TBA
DAY: Monday and Wednesday*
TIME: 11:30pm – 1:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5");
LE/EECS1021 3.00 or LE/EECS 1020 (prior to Fall 2015) 3.00 or LE/EECS1022 3.00 or LE/EECS 1720 3.00.
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00.
PREVIOUSLY OFFERED AS: LE/EECS1030 3.00, LE/CSE 1030 3.00
DESCRIPTION: See course description for LE/EECS 2030 3.0A (F)

LE/EECS 2030 3.0C (F) – ADVANCED OBJECT ORIENTED PROGRAMMING
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 5:30pm – 7:00am
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5");
LE/EECS1021 3.00 or LE/EECS 1020 (prior to Fall 2015) 3.00 or LE/EECS1022 3.00 or LE/EECS 1720 3.00.
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00.
PREVIOUSLY OFFERED AS: LE/EECS1030 3.00, LE/CSE 1030 3.00.
DESCRIPTION: See course description for LE/EECS 2030 3.0A (F)

LE/EECS 2030 3.0E (F) – ADVANCED OBJECT ORIENTED PROGRAMMING
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 1:00pm – 2:30pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5");
LE/EECS1021 3.00 or LE/EECS 1020 (prior to Fall 2015) 3.00 or LE/EECS1022 3.00 or LE/EECS 1720 3.00.
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00.
PREVIOUSLY OFFERED AS: LE/EECS1030 3.00, LE/CSE 1030 3.00.
DESCRIPTION: See course description for LE/EECS 2030 3.0A (F)

LE/EECS 2030 3.0M (W) – ADVANCED OBJECT ORIENTED PROGRAMMING
INSTRUCTOR: Yves Leesperance
OFFICE: TBA
DAY: Tuesday and Thursday*
TIME: 1:00pm – 2:30pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5");
LE/EECS1021 3.00 or LE/EECS 1020 (prior to Fall 2015) 3.00 or LE/EECS1022 3.00 or LE/EECS 1720 3.00.
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00.
PREVIOUSLY OFFERED AS: LE/EECS1030 3.00, LE/CSE 1030 3.00.
DESCRIPTION: See course description for LE/EECS 2030 3.0A (F)
LE/EECS 2030 3.0Z (W) – ADVANCED OBJECT ORIENTED PROGRAMMING
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday*
TIME: 4:00pm – 7:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5");
LE/EECS1021 3.00 or LE/EECS 1020 (prior to Fall 2015) 3.00 or LE/EECS1022 3.00 or LE/EECS 1720 3.00.
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00.
PREVIOUSLY OFFERED AS: LE/EECS1030 3.00, LE/CSE 1030 3.00.
DESCRIPTION: See course description for LE/EECS 2030 3.0A (F)

AP/ITEC 1000 3.0A (F) – INTRODUCTION TO INFORMATION TECHNOLOGIES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday
TIME: 11:30am – 2:30pm
COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.0. PRIOR TO FALL 2009: AK/AS/ITEC 1000 3.0, AK/AS/ITEC 1011 3.0,
GL/ITEC 1011 3.0.
DESCRIPTION: 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.

AP/ITEC 1000 3.0B (F) – INTRODUCTION TO INFORMATION TECHNOLOGIES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 7:00pm – 10:00pm
COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.0. PRIOR TO FALL 2009: AK/AS/ITEC 1000 3.0, AK/AS/ITEC 1011 3.0,
GL/ITEC 1011 3.0.
DESCRIPTION: See course description for AP/ITEC 1000 3.0A (F).

AP/ITEC 1000 3.0M (W) – INTRODUCTION TO INFORMATION TECHNOLOGIES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday
TIME: 7:00pm – 10:00pm
COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.0. PRIOR TO FALL 2009: AK/AS/ITEC 1000 3.0, AK/AS/ITEC 1011 3.0,
GL/ITEC 1011 3.0.
DESCRIPTION: See course description for AP/ITEC 1000 3.0A (F).
AP/ITEC 1000 3.0N (W) – INTRODUCTION TO INFORMATION TECHNOLOGIES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
DESCRIPTION: See course description for AP/ITEC 1000 3.0A (F).

AP/ITEC 1010 3.0A (F) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday
TIME: 7:00pm – 10:00pm
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; pertaining to the use of desktop applications.

AP/ITEC 1010 3.0B (F) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm – 5:30pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0C (F) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0D (F) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).
AP/ITEC 1010 3.0M (W) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday
TIME: 11:30am – 2:30pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0N (W) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday
TIME: 7:00pm – 10:00pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0O (W) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 4:00pm – 7:00pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0P (W) – INFORMATION AND ORGANIZATIONS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday
TIME: 5:00pm – 8:00pm
DESCRIPTION: See course description for AP/ITEC 1010 3.0A (F).

AP/LING 2120 3.0M (W) – PHONOLOGY 1: ANALYSIS
INSTRUCTOR: Emily Elfner
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 11:30am – 1:00pm
PREREQUISITE: Can be taken with a grade of C or higher in AP/LING 1000; AP/LING 2110
COURSE CREDIT EXCLUSION: GL/EN/LIN 3601 3.00; AS/LING 2120 3.00. PRIOR TO FALL 2013: Course Credit Exclusions: GL/EN 3601 3.00, GL/LIN 3601 3.00.
DESCRIPTION: Provides students with the opportunity to develop the analytical skills necessary for more advanced phonological work. Emphasis throughout is on practical analysis and argumentation, drawing on data from a wide variety of languages.
AP/LING 2130 3.0A (F) – MORPHOLOGY 1: ANALYSIS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 1:00pm – 2:30pm
PREREQUISITE: Can be taken with a grade of C or higher in AP/LING 1000.
COURSE CREDIT EXCLUSION: None; PRIOR TO FALL 2009: AS/LING 2130 3.0
DESCRIPTION: An introduction to the nature and organization of morphological patterns in human languages. Students are exposed to a range of cross-linguistic data, with emphasis being placed on how morphological theory accounts for these data.

AP/LING 2140 3.0M (W) – SYNTAX 1: ANALYSIS
INSTRUCTOR: Ruth E King
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 11:30am – 1:00pm
PREREQUISITE: Can be taken with a grade of C or higher AP/LING 1000; AP/LING 2130 is NOT necessary for Cognitive Science majors.
DESCRIPTION: Offers an introduction to syntactic analysis, building on concepts acquired in AP/LING 1000 6.00 and AP/LING 2130 3.00, and paves the way for AP/LING 3140 3.00. 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 3.0A (F) – INTRODUCTION TO LOGIC
INSTRUCTOR: Brian Huss
OFFICE: TBA
DAY: Monday*
TIME: 2:30pm – 4:30pm
PREREQUISITES: None
DESCRIPTION: Logic, in the philosophical tradition, is the study of what makes arguments valid. It aims to distinguish correct reasoning from faulty reasoning. This course presents the basic elements of modern symbolic logic for the beginning student.

AP/PHIL 2100 3.0M (W) – INTRODUCTION TO LOGIC
INSTRUCTOR: Brian Huss
OFFICE: TBA
DAY: Monday*
TIME: 2:30pm – 4:30pm
PREREQUISITES: None
DESCRIPTION: See course description for AP/PHIL 2100 3.0A (F).
HH/PSYC 2020 6.0A (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: James Check
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 8:30am – 10:30am
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.00 with a minimum grade of C when used as a prerequisite.
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.

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.

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

HH/PSYC 2020 6.0B (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: James Check
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 2:30pm – 4:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.00 with a minimum grade of C when used as a prerequisite.
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.

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.

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

HH/PSYC 2020 6.0C (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: Monique Herbert
OFFICE: TBA
DAY: Monday
TIME: 11:30am – 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.

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

ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.
HH/PSYC 2020 6.0D (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: Alistair Mapp
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.
DESCRIPTION: See course description for HH/PSYC 2020 6.0B(Y).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2020 6.0E (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: Jodi Martin
OFFICE: TBA
DAY: Friday
TIME: 11:30am – 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.
DESCRIPTION: See course description for HH/PSYC 2020 6.0B (Y).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2020 6.0F (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: Alistair Mapp
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.
DESCRIPTION: See course description for HH/PSYC 2020 6.0B (Y).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.
HH/PSYC 2020 6.0G (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: Jodi Martin
OFFICE: TBA
DAY: Thursday
TIME: 2:30pm – 5:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.

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

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

HH/PSYC 2020 6.0H (Y) – STATISTICAL METHODS I AND II
INSTRUCTOR: Alistair Mapp
OFFICE: TBA
DAY: Thursday
TIME: 11:30am - 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: See notes below. AP/SOCI 3030 6.00, HH/PSYC 2021 3.00, HH/PSYC 2022 3.00, SC/BIOL 2060 3.00, HH/KINE 2050 3.00, HH/KINE 3150 3.00, SC/MATH 2500 3.00, SC/MATH 2560 3.00, SC/MATH 2565 3.00, SC/MATH 2570 3.0, GL/PSYC 2530 3.00, GL/PSYC 2531 3.00.

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

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

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Note 1: The course credit exclusions listed above may not be substituted for HH/PSYC 2020 6.0 to satisfy psychology degree requirements unless approved as acceptable substitutes by the department and Faculty. Please consult the relevant department and Faculty for more information.

Note 2: Students who discontinue registration in HH/PSYC 2020 6.0 after the fall term may not petition for credit for a half course in statistics.

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
OFFICE: TBA
DAY: Wednesday
TIME: 2:30pm – 5:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C
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.
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2021 3.0B (F) – STATISTICAL METHODS I
INSTRUCTOR: Monique Herbert
OFFICE: TBA
DAY: Friday
TIME: 2:30pm – 5:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C
DESCRIPTION: See course description for HH/PSYC 2021 3.0A (F).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2021 3.0C (F) – STATISTICAL METHODS I
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday
TIME: 8:30am – 11:30am
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C
DESCRIPTION: See course description for HH/PSYC 2021 3.0A (F).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.
HH/PSYC 2021 3.0M (W) – STATISTICAL METHODS I
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C
DESCRIPTION: See course description for HH/PSYC 2021 3.0A (F).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2021 3.0N (W) – STATISTICAL METHODS I
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 2:30pm – 5:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C
DESCRIPTION: See course description for HH/PSYC 2021 3.0A (F).
ACCESS SPECIFICATIONS: All spaces are held for Psychology, Business and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2021 3.0O (W) – STATISTICAL METHODS I
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday
TIME: 8:30am – 11:30am
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C
DESCRIPTION: See course description for HH/PSYC 2021 3.0A (F).
HH/PSYC 2021 3.0P (W) – STATISTICAL METHODS I
INSTRUCTOR: Monique Herbert
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
Prerequisite or corequisite: HH/PSYC 1010 6.00, GL/PSYC 2510 6.00, with a minimum grade of C when used as a prerequisite.
PREREQUISITE: HH/PSYC 1010 6.0, GL/PSYC 2510 6.0 with a minimum grade of C

DESCRIPTION: See course description for HH/PSYC 2021 3.0A (F).

HH/PSYC 2030 3.0A (F) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: Jodi Martin
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm – 5:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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.
NCR note: No credit will be retained for this course for students who have passed or are taking AK/AS/HH/SC/PSYC 3010 3.0 or AK/HH/PSYC 3180 3.0 (prior to Summer 2002).

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

HH/PSYC 2030 3.0B (F) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 2:30pm – 5:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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

ACCESS SPECIFICATIONS: All spaces are held for Psychology and Cognitive Science majors/minors.
HH/PSYC 2030 3.0C (F) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: Heather Jenkin
OFFICE: TBA
DAY: Friday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.

COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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

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

HH/PSYC 2030 3.0D (F) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday
TIME: 4:00pm – 7:00pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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

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

HH/PSYC 2030 3.0M (W) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Friday
TIME: 11:30am - 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.

COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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

ACCESS SPECIFICATIONS: All spaces are held for Psychology and Cognitive Science majors/minors.
HH/PSYC 2030 3.0N (W) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday
TIME: 2:30pm-5:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.

COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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

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

HH/PSYC 2030 3.0O (W) – INTRODUCTION TO RESEARCH METHODS
INSTRUCTOR: Jodi Martin
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm – 5:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.

COURSE CREDIT EXCLUSION: AS/SC/KINE 2049 4.0, GL/PSYC 2520 3.0

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

ACCESS SPECIFICATIONS: All spaces are held for Psychology and Cognitive Science majors/minors.
LE/EECS 2011 3.0A (F) – FUNDAMENTALS OF DATA STRUCTURES
INSTRUCTOR: Jackie Wang
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 11:30am – 1:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2011 3.00.
COURSE CREDIT EXCLUSION: LE/CSE 20111 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00
DESCRIPTION: A study of fundamental data structures and their use in the efficient implementation of algorithms. Topics include abstract data types, lists, stacks, queues, trees and graphs.

LE/EECS 2011 3.0E (F) – FUNDAMENTALS OF DATA STRUCTURES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 9:30am - 11:00am
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2011 3.00.
COURSE CREDIT EXCLUSION: LE/CSE 20111 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00
DESCRIPTION: See course description for LE/EECS 2011 3.0A (F).

LE/EECS 2011 3.0M (W) – FUNDAMENTALS OF DATA STRUCTURES
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 5:30pm – 7:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2011 3.00.
COURSE CREDIT EXCLUSION: LE/CSE 20111 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00
DESCRIPTION: See course description for LE/EECS 2011 3.0A (F).
LE/EECS 2011 3.0N (W) – FUNDAMENTALS OF DATA STRUCTURES
INSTRUCTOR: Jia Xu
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 4:00pm – 5:30pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2011 3.00.
COURSE CREDIT EXCLUSION: LE/CSE 20111 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00
DESCRIPTION: See course description for LE/EECS 2011 3.0A (F).

LE/EECS 2011 3.0O (W) – FUNDAMENTALS OF DATA STRUCTURES
INSTRUCTOR: Natalija Vlajic
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 11:30am – 1:00pm
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2011 3.00.
COURSE CREDIT EXCLUSION: LE/CSE 20111 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00
DESCRIPTION: See course description for LE/EECS 2011 3.0A (F).

LE/EECS 2011 3.0Z (W) – FUNDAMENTALS OF DATA STRUCTURES
INSTRUCTOR: Uyen T Nguyen
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 8:30am – 10:00am
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 1030 3.00 or LE/EECS 2030 3.00; LE/EECS 1028 3.00 OR SC/MATH 1028 3.00 or LE/EECS 1019 3.00 or SC/MATH 1019 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 2011 3.00
COURSE CREDIT EXCLUSION: LE/CSE 20111 3.00, AK/AS/SC/CSE 2011 3.00, AK/AS/SC/COSC 2011 3.00
DESCRIPTION: See course description for LE/EECS 2011 3.0A (F).
LE/EECS 3401 3.0A (F) – INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND LOGIC PROGRAMMING

INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 10:00am – 11:30am
PREREQUISITE: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 2030 3.00 or LE/EECS 1030 3.00; LE/EECS 2011 3.00; MATH 1090 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 3401 3.00. PRIOR TO FALL 2014

DESCRIPTION: Artificial Intelligence (AI) deals with how to build intelligent systems. In this course, we examine fundamental concepts in AI: knowledge representation and reasoning, search, constraint satisfaction, reasoning under uncertainty, etc. The course also introduces logic programming and Prolog.

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

INSTRUCTOR: Enamul H Prince
OFFICE: TBA
DAY: Tuesday
TIME: 7:00pm – 10:00pm
PREREQUISITE: AP/ITEC 1000 3.00, AP/ITEC 1010 3.00, AP/ITEC 1620 3.00, AP/ITEC 2610 3.00, AP/ITEC 2620 3.00, SC/MATH 1190 3.00, SC/MATH 2565 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.

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

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

INSTRUCTOR: Enamul H Prince
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
PREREQUISITE: AP/ITEC 1000 3.00, AP/ITEC 1010 3.00, AP/ITEC 1620 3.00, AP/ITEC 2610 3.00, AP/ITEC 2620 3.00, SC/MATH 1190 3.00, SC/MATH 2565 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.

Note: This course will not count for computer science major or minor credit.
AP/ITEC 3230 3.0M (W) – DESIGNING USER INTERFACES
INSTRUCTOR: Enamul H Prince
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm
PREREQUISITE: AP/ITEC 1000 3.00, AP/ITEC 1010 3.00, AP/ITEC 1620 3.00, AP/ITEC 2610 3.00, AP/ITEC 2620 3.00, SC/MATH 1190 3.00, SC/MATH 2565 3.00.
DESCRIPTION: See description for AP/ITEC 3230 3.0A (F).

AP/LING 3120 3.0A (F) – PHONOLOGY 2: THEORY
INSTRUCTOR: Emily Elfner
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 11:30am – 1:00pm
PREREQUISITE: AP/LING 2110 3.0 and AP/LING 2120 3.0 or equivalent has been completed with a grade of C or better.
COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AS/LING 3120 3.0
DESCRIPTION: This course builds on the skills acquired in AP/LING 2120 3.00. Students will continue with problem sets from a variety of languages, while being introduced to key issues in current phonological theory.

AP/LING 3140 3.0A (F) – SYNTAX 2: THEORY
INSTRUCTOR: Gabriela Alboiu
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 11:30am – 1:00pm
PREREQUISITE: AP/LING 2140 or equivalent has been completed with a grade of C or better.
DESCRIPTION: Focuses on core aspects of syntactic theory from a Minimalist perspective. Concepts covered in AP/LING 2140 3.00 are assumed throughout. Topics discussed include argument structure, VP shells, properties of functional categories, Case theory, head and XP movement, and DP structure, among others.

AP/LING 3150 3.0M (W) – SEMANTICS
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Monday and Wednesday
TIME: 1:00pm – 2:30pm
PREREQUISITE: AP/LING 1000 6.00 or AP/LING 2060 6.00, or permission of the department
COURSE CREDIT EXCLUSION: GL/LIN 3611 3.00, GL/LIN 3611 3.00
DESCRIPTION: An introduction to topics in formal semantics. The emphasis is on providing students with an understanding of a wide range of semantic phenomena by adopting a truth-conditional account of meaning using a limited formal apparatus. Topics covered include propositional and first order logic, modality and possible worlds, definite and indefinite descriptions, event semantics and tense and aspect.
AP/LING 3210 3.0M (W) – FIRST LANGUAGE ACQUISITION
INSTRUCTOR: Chandan Narayan
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 1:00pm – 2:30pm
PREREQUISITE: AP/LING 3220 or AP/LING 1000.
COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AS/LING 3210 3.0.

DESCRIPTION: An introduction to children’s acquisition of linguistic knowledge, including lexical, morphological, phonological, syntactic, and pragmatic development, and familiarizes students with fundamental issues in current theoretical models of language acquisition.

AP/LING 3220 3.0A (F) – PSYCHOLUMINISTIC (Cross-listed to HH/PSYC 3290)
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 1:00pm – 2:30pm
PREREQUISITE: Can be taken with a grade of C or higher in either HH/PSYC 1010 6.0 or AP/LING 1000.
COURSE CREDIT EXCLUSION: HH/PSYC 3190 3.00, GL/PSYC 3640 3.00, GL/LIN 3640 3.00.

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.

AP/PHIL 3265 3.0A (F) – PHILOSOPHY OF MIND
INSTRUCTOR: Verena Gottschling
OFFICE: TBA
DAY: Monday
TIME: 11:30am – 2:30pm
PREREQUISITE: AP/PHIL 2160 3.0 or AP/PHIL 2240 3.0. PRIOR TO FALL 2009: At least six credits in philosophy including one of: AK/AS/PHIL 2160 3.0, AK/PHIL 2240 3.0 or AS/PHIL 2240 3.0.

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 2110 3.0A (F) – DEVELOPMENTAL PSYCHOLOGY
INSTRUCTOR: Scott Adler
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: 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.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology and Cognitive Science majors/minors.
**HH/PSYC 2110 3.0B (F) – DEVELOPMENTAL PSYCHOLOGY**

*INSTRUCTOR:* TBA  
*OFFICE:* TBA  
*DAY:* Friday  
*TIME:* 11:30am – 2:30pm  
*PREREQUISITE:* HH/PSYC 1010 6.0 with a minimum grade of C.  
*COURSE CREDIT EXCLUSION:* GL/PSYC 3300 3.0.  

**DESCRIPTION:** See course description for HH/PSYC 2110 3.0A (F).  

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

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

*INSTRUCTOR:* Thanujeni Pathman  
*OFFICE:* TBA  
*DAY:* FULLY ONLINE  
*TIME:*  
*PREREQUISITE:* HH/PSYC 1010 6.0 with a minimum grade of C.  
*COURSE CREDIT EXCLUSION:* GL/PSYC 3300 3.0.  

**DESCRIPTION:** See course description for HH/PSYC 2110 3.0A (F).  

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

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

*INSTRUCTOR:* TBA  
*OFFICE:* TBA  
*DAY:* Friday  
*TIME:* 11:30am – 2:30pm  
*PREREQUISITE:* HH/PSYC 1010 6.0 with a minimum grade of C.  
*COURSE CREDIT EXCLUSION:* GL/PSYC 3300 3.0.  

**DESCRIPTION:** See course description for HH/PSYC 2110 3.0A (F).  

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

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

*INSTRUCTOR:* Ellen B Bialystok  
*OFFICE:* TBA  
*DAY:* Wednesday  
*TIME:* 2:30pm – 5:30pm  
*PREREQUISITE:* HH/PSYC 1010 6.0 with a minimum grade of C.  
*COURSE CREDIT EXCLUSION:* GL/PSYC 3300 3.0.  

**DESCRIPTION:** See course description for HH/PSYC 2110 3.0A (F).  

**ACCESS SPECIFICATIONS:** Most spaces are held for Psychology and Cognitive Science majors/minors.
HH/PSYC 2120 3.0A (F) – SOCIAL PSYCHOLOGY
INSTRUCTOR: James V. Check
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3660 3.0

DESCRIPTION: This course reviews the theories, methods and empirical evidence in the scientific study of human social behaviour. The aim is to elucidate social psychological processes through the examination of areas such as social influence, attribution, attitudes and stereotyping.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology, Business and Society, Law and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2120 3.0B (F) – SOCIAL PSYCHOLOGY
INSTRUCTOR: C. Ward Struthers
OFFICE: TBA
DAY: Thursday
TIME: 8:30am - 11:30am
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3660 3.0

DESCRIPTION: See course description for HH/PSYC 2120 3.0A (F).

ACCESS SPECIFICATIONS: Most spaces are held for Psychology, Business and Society, Law and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2120 3.0C (F) – SOCIAL PSYCHOLOGY
INSTRUCTOR: C. Ward Struthers
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3660 3.0

DESCRIPTION: See course description for HH/PSYC 2120 3.0A (F).

ACCESS SPECIFICATIONS: Most spaces are held for Psychology, Business and Society, Law and Society, Cognitive Science and Communication Studies majors/minors.
HH/PSYC 2120 3.0M (W) – SOCIAL PSYCHOLOGY
INSTRUCTOR: Kerry Kawakami
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3660 3.0
 DESCRIPTION: See course description for HH/PSYC 2120 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology, Business and Society, Law and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2120 3.0N (W) – SOCIAL PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3660 3.0
 DESCRIPTION: See course description for HH/PSYC 2120 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology, Business and Society, Law and Society, Cognitive Science and Communication Studies majors/minors.

HH/PSYC 2120 3.0O (W) – SOCIAL PSYCHOLOGY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Fully Online
TIME:
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3660 3.0
 DESCRIPTION: See course description for HH/PSYC 2120 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology, Business and Society, Law and Society, Cognitive Science and Communication Studies majors/minors.
HH/PSYC 2220 3.0A (F) – SENSATION AND PERCEPTION I
INSTRUCTOR: Laurie M Wilcox
OFFICE: TBA
DAY: FULLY ONLINE
TIME:
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3690 3.0.

DESCRIPTION: A course in problems, experimental methods and research findings in sensation and perception. Vision and hearing are covered in some detail, including discussion of the structure and function of the eye and ear, and cortical areas responsible for processing visual and auditory information.

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

HH/PSYC 2220 3.0B (F) – SENSATION AND PERCEPTION I
INSTRUCTOR: Richard Murray
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3690 3.0.

DESCRIPTION: See course description for HH/PSYC 2220 3.0A (F).

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

HH/PSYC 2240 3.0A (F) – BIOLOGICAL BASIS OF BEHAVIOUR
INSTRUCTOR: Peter Je Kohler
OFFICE: TBA
DAY: Monday
TIME: 2:30pm – 5:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: 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.

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

HH/PSYC 2240 3.0B (F) – BIOLOGICAL BASIS OF BEHAVIOUR
INSTRUCTOR: Joseph DeSouza
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3670 3.0.
DESCRIPTION: See course description for HH/PSYC 2240 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology and Cognitive Science majors/minors.
HH/PSYC 2240 3.0M (W) – BIOLOGICAL BASIS OF BEHAVIOUR
INSTRUCTOR: Joseph F. DeSouza
OFFICE: TBA
DAY: Friday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3670 3.0.
DESCRIPTION: See course description for HH/PSYC 2240 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology and Cognitive Science majors/minors.

HH/PSYC 2240 3.0N (W) – BIOLOGICAL BASIS OF BEHAVIOUR
INSTRUCTOR: Joseph F. DeSouza
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3670 3.0.
DESCRIPTION: See course description for HH/PSYC 2240 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology and Cognitive Science majors/minors.

HH/PSYC 3250 3.0M (W) – NEURAL BASIS OF BEHAVIOUR
INSTRUCTOR: Gary Turner
OFFICE: TBA
DAY: Thursday
TIME: 11:30am - 2:30pm
PREREQUISITES: HH/PSYC 1010 6.0 with a minimum grade of C; 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.
ACCESS SPECIFICATIONS: Most spaces are held for Psychology and Cognitive Science majors/minors.

HH/PSYC 3265 3.0A (F) – MEMORY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Thursday
TIME: 11:30am - 2:30pm
PREREQUISITES: HH/PSYC 1010 6.00, with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3390 3.00.
DESCRIPTION: An examination of how humans encode, store and retrieve information from memory. Although the course focuses on data from laboratory studies and their theoretical interpretation, some consideration is given to applied aspects of human memory.
HH/PSYC 3265 3.0M (W) – MEMORY
INSTRUCTOR: TBA
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am - 2:30pm
PREREQUISITES: HH/PSYC 1010 6.0, with a minimum grade of C.
COURSE CREDIT EXCLUSION: GL/PSYC 3390 3.00.

DESCRIPTION: See course description for HH/PSYC 3265 3.0A (F)

HH/PSYC 3290 3.0A (F) – PSYCHOLINGUISTICS (Cross-listed to: AP/LING 3220 3.0)
INSTRUCTOR: Marina Sherkina
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 1:00pm – 2:30pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C, or AP/LING 1000 6.0
COURSE CREDIT EXCLUSION: HH/PSYC 3190 3.0, GL/PSYC 3640 3.0, GL/LIN 3640 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.

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

LE/EECS 4401 3.0M (W) – ARTIFICIAL INTELLIGENCE
INSTRUCTOR: Yves Lesperance
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 11:30am – 1:00pm
PREREQUISITES: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 2030 3.00 or LE/EECS 1030 3.00; LE/EECS 3401 3.00.

DESCRIPTION: This is a second course in Artificial intelligence that covers selected topics in this area such as: reasoning about action and planning, uncertain and fuzzy reasoning, knowledge representation, automated reasoning, non-monotonic reasoning and answer set programming, ontologies and description logic, local search methods, Markov decision processes, autonomous agents and multi-agent systems, machine learning, reasoning about beliefs and goals, and expert systems.

LE/EECS 4421 3.0M (W) – INTRODUCTION TO ROBOTICS
INSTRUCTOR: Michael Jenkin
OFFICE: TBA
DAY: Wednesday and Friday
TIME: 1:00pm – 2:30pm
PREREQUISITES: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); SC/MATH 1025 3.00, SC/MATH 1310 3.00, LE/EECS 2031 3.00. Previously offered as: LE/CSE 4421 3.00.
DESCRIPTION: An introduction to robotic manipulators and autonomous vehicles. The course covers the kinematics and dynamics of manipulators and autonomous platforms, robot sensors and navigation.

**LE/EECS 4422 3.0A (F) – COMPUTER VISION - INTEGRATED WITH GS/EECS 5323 3.0**

INSTRUCTOR: James H. Elder
OFFICE: TBA
DAY: Monday and Wednesday*
TIME: 11:30am - 1:00pm
PREREQUISITES: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "S"); SC/MATH 1025 3.00; SC MATH 1310 3.00, LE/EECS 2031 3.00 or LE/EECS 2032 4.00
PREVIOUSLY OFFERED AS: LE/CSE 4422 3.00.

DESCRIPTION: Fundamental concepts of Computer vision and including aspects of biological vision, image formation process, image processing, feature extraction and matching, 3-D parameter estimation, applications and statistical techniques. Twelve supervised laboratory hours.

**LE/EECS 4441 3.0A (F) – HUMAN-COMPUTER INTERACTION - INTEGRATED WITH GS/EECS 5351 3.0**

INSTRUCTOR: I. Scott MacKenzie
OFFICE: TBA
DAY: Tuesday and Thursday
TIME: 2:30pm – 4:00pm
PREREQUISITES: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "S"); LE/EECS 2030 3.00 or LE/EECS 1030 3.00; LE/EECS 3461 3.00.
PREVIOUSLY OFFERED AS: LE/CSE 4441 3.00.

DESCRIPTION: Introduces the concepts and technology necessary to design, manage and implement interactive software. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result. Both design and evaluation are emphasized.

**AP/LING 4120 3.0 – ADVANCED PHONOLOGY– INTEGRATED WITH GS/LING 5120 3.0**

NOT OFFERED 2020 - 2021

**AP/LING 4150 3.0M (W) – TOPICS IN THE SYNTAX-SEMANTICS INTERFACE– INTEGRATED WITH GS/LING 5150 3.0**

INSTRUCTOR: Gabriela Alboiu
OFFICE: TBA
DAY: Friday
TIME: 11:30am – 2:30pm
PREREQUISITES: AP/LING 3140 3.00 and at least three additional credits in linguistics (LING) at the 3000 level with grades of C+ or better. Course credit exclusions: None.

DESCRIPTION: Explores issues at the syntax-semantics interface. Topics include quantificational structures, LF movement, events and aspect types, the interaction between Case, telicity and syntactic versus semantic arguments, and structural encodings of discourse related properties such as topic-comment, theme-rhyme, and focus-presupposition structures in various languages. Involves primary literature. Integrated with: GS/LING 5150 3.0
AP/LING 4230 3.0A (F) – LANGUAGE AND THE BRAIN
INSTRUCTOR: Chandan Narayan
OFFICE: TBA
DAY: Monday
TIME: 2:30pm - 5:30pm
PREREQUISITE: AP/LING 2120 3.00, AP/LING 2140 3.00, and AP/LING 3220 3.00 with grades of C+ or better; and at least three additional credits in linguistics (AP/LING) at the 3000 level with grades of C+ or better.

COURSE CREDIT EXCLUSIONS: PRIOR TO SUMMER 2010: AP/LING 4230 3.00 (Language and the Brain) was AP/LING 4230 3.00 (Language Disorders).

DESCRIPTION: Focuses on the relationship between the human brain and comprehension, production, and acquisition of language. It surveys a variety of language disorders, such as aphasia, delayed language development, dyslexia and language dissolution in old age.

AP/LING 4250 3.0 – EVOLUTION OF LANGUAGE
NOT OFFERED 2020 -2021

AP/PHIL 3200 3.0A (F) – PHILOSOPHY OF LANGUAGE
INSTRUCTOR: Claudine Verheggen
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm - 5:30pm
PREREQUISITE: AP/PHIL 2080 3.0 or AP/PHIL 2100 3.0 or AP/PHIL 2240 3.0
PRIOR TO FALL 2009: AS/PHIL 2100 3.00 OR AK/PHIL 2100 3.00 (PRIOR TO SUMMER 2007) ARE RECOMMENDED
COURSE CREDIT EXCLUSION: GL/PHIL 3910 3.0. PRIOR TO FALL 2009: AK/AS/PHIL 3200 3.0

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 3635 3.0A (F) – PHILOSOPHY OF NEUROSCIENCE
INSTRUCTOR: Verena Gottschling
OFFICE: TBA
DAY: Wednesday
TIME: 2:30pm - 5:30pm
PREREQUISITE: AP/PHIL 2160 3.00 or AP/PHIL 2240 3.00.

DESCRIPTION: A critical examination of philosophical problems raised by neuroscientific research, which asks whether such research can help to answer traditional philosophical questions. The course introduces the goals, methods, techniques and theoretical as well as conceptual commitments of neuroscience and examines the field’s background assumptions, limitations and pitfalls.
AP/PHIL 4080 3.0A (F) – SEMINAR IN THE PHILOSOPHY OF MIND
INSTRUCTOR: Kevin J. Lande
OFFICE: TBA
DAY: Monday
TIME: 11:30am - 2:30pm
PREREQUISITE: At least nine credits in philosophy, including AP/PHIL 3260 3.00 or AP/PHIL 3265 3.00.
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 3.0M (W) – PHILOSOPHY OF COGNITIVE SCIENCE
INSTRUCTOR: David Al Jopling
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm – 5:30pm
PREREQUISITE: At least nine credits in philosophy, including at least three credits from the following: AP/PHIL 3260 3.00 or AP/PHIL 3265 3.00.
COURSE CREDIT EXCLUSION: AP/PHIL 4082 3.00 (prior to Fall 2014).

DESCRIPTION: An examination of philosophical issues at the foundations of cognitive science, such as: mental representation, perception, concepts, rationality, memory, intelligence, modularity, evolutionary psychology, extended and embodied cognition, and consciousness.

AP/PHIL 4083 3.0 – PHILOSOPHY OF CLINICAL PSYCHOLOGY
NOT OFFERED 2020 - 2021

AP/PHIL 4084 3.0 – ANIMALS AND THE PHILOSOPHY OF MIND
NOT OFFERED 2020 - 2021

HH/PSYC 4010 3.0A (F) – SEMINAR IN DEVELOPMENTAL PSYCHOLOGY
INSTRUCTOR: Melody S. Wiseheart
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm – 5:30pm

COURSE CREDIT EXCLUSIONS: HH/PSYC 4010 3.0, GL/PSYC 4510 3.0.

DESCRIPTION: Some major modern theories of child development are compared, and their corresponding data and methodologies are analysed.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Children Studies.
HH/PSYC 4010 3.0B (F) – SEMINAR IN DEVELOPMENTAL PSYCHOLOGY
INSTRUCTOR: Debra J. Pepler
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm

COURSE CREDIT EXCLUSIONS: HH/PSYC 4010 3.0, GL/PSYC 4510 3.0.

DESCRIPTION: Some major modern theories of child development are compared, and their corresponding data and methodologies are analysed.

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

HH/PSYC 4010 6.0A (Y) – SEMINAR IN DEVELOPMENTAL PSYCHOLOGY
INSTRUCTOR: Melody S. Wiseheart
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am - 2:30pm

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

DESCRIPTION: See description for HH/PSYC 4010 3.0A(F).

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: Thanujeni Pathman
OFFICE: TBA
DAY: Wednesday
TIME: 11:30am - 2:30pm

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

DESCRIPTION: See description for HH/PSYC 4010 3.0A(F).

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: Scott A Adler
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
COURSE CREDIT EXCLUSIONS: HH/PSYC 4010 3.0, HH/PSYC 4140 3.0, GL/PSYC 4510 3.0.
DESCRIPTION: See description for HH/PSYC 4010 3.0A(F).
ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Children Studies.

HH/PSYC 4020 3.0A (F) – SEMINAR IN SOCIAL PSYCHOLOGY
INSTRUCTOR: C. Ward Struthers
OFFICE: TBA
DAY: Tuesday
TIME: 8:30am – 11:30am
COURSE CREDIT EXCLUSIONS: AK/AS/HH/SC/PSYC 4020 6.0. PRIOR TO SUMMER 2002: 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.
ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Cognitive Science

HH/PSYC 4020 6.0A (Y) – SEMINAR IN SOCIAL PSYCHOLOGY
INSTRUCTOR: Sadia Zafar
OFFICE: TBA
DAY: Tuesday
TIME: 2:30pm – 5:30pm
COURSE CREDIT EXCLUSIONS: AK/AS/HH/SC/PSYC 4020 6.0. PRIOR TO SUMMER 2002: 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.
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: TBA
OFFICE: TBA
DAY: Wednesday
TIME: 2:30pm - 5:30pm
COURSE CREDIT EXCLUSION: AK/AS/HH/SC/PSYC 4020 6.0. PRIOR TO SUMMER 2002: AK/PSYC 4110 3.0
DESCRIPTION: See course description for HH/PSYC 4020 6.0A (Y).
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: Sadia Zafar
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm
DESCRIPTION: See course description for HH/PSYC 4020 6.0A (Y).
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: Kristina Gicas
OFFICE: TBA
DAY: Wednesday
TIME: 8:30am - 11:30am
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.
ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Criminology.
HH/PSYC 4260 3.0M (W) – SEMINAR IN SENSATION AND PERCEPTION
INSTRUCTOR: Jennifer Steeves
OFFICE: TBA
DAY: Thursday
TIME: 11:30am – 2:30pm

COURSE CREDIT EXCLUSION: None. PRIOR TO SUMMER 2002: AS/AS/SC PSYC 4120.

DESCRIPTION: This seminar course gives advanced, detailed coverage of topics in sensation and perception. Specific topics vary according to the instructor, and could include vision (e.g., shape perception, colour perception), hearing (e.g., auditory localization, speech perception), or vestibular perception (e.g., balance, the sense of movement). The course emphasizes reading and evaluating original scientific work, and readings include journal articles or research monographs. Special attention is paid to understanding the value and limitations of common experimental methods in perception research.

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

HH/PSYC 4270 3.0A (F) - SEMINAR IN MEMORY AND COGNITION
INSTRUCTOR: Dale Stevens
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm

DESCRIPTION: An examination of a number of issues in memory and cognition. The course focuses on areas of current interest and may include topics such as pattern recognition, perception of art, memory retrieval, connectionist models, problem solving, thinking, concept formation, categorization and artificial intelligence.

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

HH/PSYC 4270 3.0M (W) - SEMINAR IN MEMORY AND COGNITION
INSTRUCTOR: Shayna Rosenbaum
OFFICE: TBA
DAY: Tuesday
TIME: 11:30am – 2:30pm

DESCRIPTION: See course description for HH/PSYC 4270 3.0 (A).
ACCESS SPECIFICATION: All spaces are held for 4th year Honours students in Psychology and Cognitive Science.
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 Internet. Students must treat material found on the Internet 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.
# Faculty of Liberal Arts and Professional Studies (LA&PS)
## Cognitive Science - Specialized Honours BA (2019/20 Program Checklist)

### GENERAL EDUCATION - 21 Credits

21 credits at the 1000 level, chosen from 3 different general education categories

<table>
<thead>
<tr>
<th>Credit</th>
<th>Complete or Incomplete</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Humanities or Social Science:</td>
<td>9.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2) Humanities or Social Science (whichever is not taken in line 1):</td>
<td>6.00</td>
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<tr>
<td>3) Natural Science:</td>
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</table>

**Total General Education Credits** 21.00

### MAJOR – 51-54 Credits

**Core Program Courses: 30-33 Credits**

- AP LING 1000 Introduction to Linguistics  **OR** AP COGS/LING 2800 Language and Mind 6.00 or 3.00
- HH PSYC 1010 Introduction to Psychology 6.00
- HH PSYC 2260 Cognition 3.00
- AP COGS/PHIL 2160 Minds, Brains and Machines 3.00
- AP PHIL 2240 Introduction to the Philosophy of Mind 3.00
- AP PHIL 3260 Philosophy of Psychology 3.00
- AP COGS/PHIL 3750 Philosophy of Artificial Intelligence 3.00
- AP COGS 4750 Honours Thesis in Cognitive Science  **OR** AP COGS 4901 Honours Seminar in Cognitive Science 6.00 or 6.00

**Choose 6 credits from the following:**

- LE EECS 1022 Programming for Mobile Computing 3.00
- LE EECS 2001 Introduction to the Theory of Computation 3.00
- LE EECS 2030 Advanced Object Oriented Programming 3.00
- AP ITEC 1000 Introduction to Information Technologies 3.00
- AP ITEC 1010 Information and Organizations 3.00
- AP LING 2120 Phonology 1: Analysis 3.00
- AP LING 2130 Morphology 1: Analysis 3.00
- AP LING 2140 Syntax 1: Analysis 3.00
- AP PHIL 2100 Introduction to Logic 3.00
- HH PSYC 2020 Statistical Methods I and II  **OR** HH PSYC 2021 Statistical Methods I 6.00
- HH PSYC 2030 Introduction to Research Methods 3.00

**Choose 9 credits from the following, including at least 2 different disciplines (departments):**

- LE EECS 2011 Fundamentals of Data Structures 3.00
- LE EECS 3401 Intro. to Artificial Intelligence and Logic Programming 3.00
- AP ITEC 3230 Designing User Interfaces 3.00
- AP LING 3120 Phonology 2: Theory 3.00
- AP LING 3140 Syntax 2: Theory 3.00
- AP LING 3150 Semantics 3.00
- AP LING 3210 First Language Acquisition 3.00
- AP LING 3220 Psycholinguistics 3.00
- AP PHIL 3265 Philosophy of Mind 3.00
- HH PSYC 2110 Developmental Psychology 3.00
- HH PSYC 2120 Social Psychology 3.00
- HH PSYC 2220 Sensation and Perception I 3.00
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HH PSYC 2240</td>
<td>Biological Basis of Behaviour</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 3250</td>
<td>Neural Bases of Behaviour</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 3265</td>
<td>Memory</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 3280</td>
<td>Animal Behaviour</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 3290</td>
<td>Psycholinguistics</td>
<td>3.00</td>
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</table>

Choose 6 credits from the following, including at least 2 different disciplines (departments):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LE EECS 4401</td>
<td>Artificial Intelligence</td>
<td>3.00</td>
</tr>
<tr>
<td>LE EECS 4421</td>
<td>Introduction to Robotics</td>
<td>3.00</td>
</tr>
<tr>
<td>LE EECS 4422</td>
<td>Computer Vision</td>
<td>3.00</td>
</tr>
<tr>
<td>LE EECS 4441</td>
<td>Human-Computer Interaction</td>
<td>3.00</td>
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<tr>
<td>AP LING 4120</td>
<td>Advanced Phonology</td>
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<tr>
<td>AP LING 4140</td>
<td>Advanced Syntax</td>
<td>3.00</td>
</tr>
<tr>
<td>AP LING 4150</td>
<td>Topics in the Syntax–Semantics Interface</td>
<td>3.00</td>
</tr>
<tr>
<td>AP LING 4230</td>
<td>Language and the Brain</td>
<td>3.00</td>
</tr>
<tr>
<td>AP LING 4250</td>
<td>Evolution of Language</td>
<td>3.00</td>
</tr>
<tr>
<td>AP PHIL 3200</td>
<td>Philosophy of Language</td>
<td>3.00</td>
</tr>
<tr>
<td>AP PHIL 3635</td>
<td>Philosophy of Neuroscience</td>
<td>3.00</td>
</tr>
<tr>
<td>AP PHIL 4080</td>
<td>Seminar in the Philosophy of Mind</td>
<td>3.00</td>
</tr>
<tr>
<td>AP PHIL 4082</td>
<td>Philosophy of Cognitive Science</td>
<td>3.00</td>
</tr>
<tr>
<td>AP PHIL 4083</td>
<td>Philosophy of Clinical Psychology</td>
<td>3.00</td>
</tr>
<tr>
<td>AP PHIL 4084</td>
<td>Animals &amp; the Philosophy of Mind</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 4010</td>
<td>Seminar in Developmental Psychology</td>
<td>3.00/6.00</td>
</tr>
<tr>
<td>HH PSYC 4020</td>
<td>Seminar in Social Psychology</td>
<td>3.00/6.00</td>
</tr>
<tr>
<td>HH PSYC 4080</td>
<td>Neuropsychology of Abnormal Behavior</td>
<td>6.00</td>
</tr>
<tr>
<td>HH PSYC 4230</td>
<td>Human Performance in Systems</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 4260</td>
<td>Seminar in Sensation and Perception</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 4270</td>
<td>Seminar in Memory and Cognition</td>
<td>3.00</td>
</tr>
<tr>
<td>HH PSYC 4285</td>
<td>Seminar in Comparative Cognition</td>
<td>3.00</td>
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</table>

**Total Major Credits** 51-54

**Credits Outside the Major – at least 18 Credits**

<table>
<thead>
<tr>
<th>Course Outside Major:</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>6.00</td>
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</tbody>
</table>

**Total Credits Outside the Major** 18.00

**Free Choice: 30-33 Credit (could be anything, including extra cognitive science courses)**

<table>
<thead>
<tr>
<th>Any Course:</th>
<th>Credits</th>
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<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
<td>6.00</td>
</tr>
<tr>
<td></td>
<td>3.00</td>
</tr>
</tbody>
</table>

**Total Free Choice Credits** 27-30

**TOTAL DEGREE CREDITS** 120.00

In addition to the above course requirements, please note further requirements on next page.
Requirement Checklist and Notes (To ensure graduation, each box must be checked 'completed')

☐ Residency Requirement: a minimum of 30 course credits and at least half (50 per cent) of the course credits required in each undergraduate degree program major/minor must be taken at York University

☐ Upper-level Requirement: at least 36 credits at 3000-4000 level. 18 credits must be at 4000 level

<table>
<thead>
<tr>
<th>Upper Level Checklist</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000-LEVEL (must be at least 36 credits)</td>
</tr>
<tr>
<td>PHIL 3260 3.00</td>
</tr>
<tr>
<td>COGS/PHIL 3750 3.00</td>
</tr>
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<tr>
<td></td>
</tr>
<tr>
<td>Total = 36 credits (at least)</td>
</tr>
</tbody>
</table>

NOTE: For the GENERAL EDUCATION category, a minimum of 6.0 credits must be chosen from each of Humanities, Natural Science and Social Science. General Education courses are offered at the 1000 level. A maximum of 9 credits in Humanities and Social Science will count towards fulfillment of the General Education 21 credit requirements. For approved LA&PS General education courses go to [http://www.yorku.ca/laps/courses/gen_education.html](http://www.yorku.ca/laps/courses/gen_education.html)
IMPORTANT INFORMATION AND RESOURCES

For an online version of your degree requirements, use the Degree Progress Report found here: www.registrar.yorku.ca/mydegreeprogress

PLEASE NOTE: This manual Degree Checklist is only a guide designed to assist students with degree requirements and course selection. It is not intended as the official confirmation of a student’s eligibility to graduate as requirements may change from year to year. Satisfaction of all degree requirements will be officially determined by the Registrar’s Office upon application to graduate. Students are advised to make sure they are following the correct degree requirements by checking the Undergraduate Calendar of the year in which they entered their program.

Academic Calendars: calendars.registrar.yorku.ca

Academic Advising: LAPS Student Academic Advising Services, 103 Central Square 416-736-5222, laps@yorku.ca
LAPS Student Academic Advising Services

Department Contact Information: Department of Philosophy, South Ross, 448 (416) 736-5113, lapsphil@yorku.ca

Registration & Fees: Student Client Services, Bennett Centre for Student Services (416) 872-YORK (9675) www.yorku.ca/scsweb

Other resources: yustart.info.yorku.ca/all-resources-a-z