Faculty of Liberal Arts and Professional Studies
York University

Degree-Level Expectations for Programs

Program:	**Cognitive Science**
Degree Type:	**BA** *(e.g. BA; BAS; BDEM; BHRM; BPA; BSW; etc.)*
Degree(s):	**Specialized Honours** *(e.g. Specialized Honours (120 credits); Honours (120 credits); Bachelor (90 credits); etc.)*
Department/School:	**LAPS**
Submission Date:	

Instructions:

1. On page 1, please complete the information regarding:
   - the name of the program (e.g. Criminology; Public Administration; Sociology; etc.);
   - the degree type of the program (e.g. BA; BDEM; BAS; BHRM; BPA; BSW; etc.);
   - the degree options offered through the program (e.g. *Specialized Honours (120 credits); Honours (120 credits); Bachelor (90 credits); etc.); and*
   - the name of the Department/School that offers the program.

2. For each of the six (6) University Undergraduate Degree Level Expectations (UUDLEs) listed in the chart below, please:
   a) define the relevant degree-level expectations (i.e. describe what is demonstrated by students who are awarded the degree);
   b) describe the relevant program learning objectives/student learning outcomes for each degree-level expectation (i.e., what students should know and/or be able to do by the end of the program); and
   c) align the relevant courses and assessment methods/activities with the program learning objectives/ student learning outcomes. *Note: when a program has a long list of electives, the Unit may include the details on the specific requirement (i.e. students have to choose X courses from the list of Y electives) in the chart below and append the full list of applicable elective courses at the end of this document.*

3. For each program offered by the Department/School, please submit (via email) one completed *Degree-Level Expectations for Programs* document.
   - Email address for submissions: apccps@yorku.ca
   - Submission deadline: **July 31, 2012**

	a) Degree-Level Expectation *This degree is awarded to students who have demonstrated the following:*	b) Program Learning Objectives (with assessment embedded in outcomes) *By the end of this program, students will be able to:*	c) Appropriate Degree Requirement & Assessment *Align courses and assessment methods/activities with the program learning objectives.*
1. Depth and Breadth of Knowledge	-an understanding of the relationship between the different disciplinary approaches of studying the mind -an understanding of the methods and the content of the different disciplines -a developing expertise in two of the disciplines that focus on a study of the mind -awareness of challenges faced by the different disciplines -ability to critically assess research across the different disciplines -ability to produce research at an advanced undergraduate level in one of the disciplines that focus on a study of the mind	-present the philosophical positions about the nature of mind -present the psychological positions about the study of the mind -present the theoretical perspectives on the nature of mind given computer models of the mind -present theories about the relationship between language and thought -understand principles of language structure and interpretation -critically analyze the theories -critically analyze empirical research -engage in theoretical or empirical research aimed at discovering aspects of the mind -integrate research from psychology, philosophy, computer science, linguistics, and neuroscience -speak across disciplines and translate the technical terms of the disciplines so as to make research accessible to researchers and students in other areas	Ling 1000 Introduction to Linguistics -tests on theoretical perspectives on language and mind, linguistic structure and interpretation OR Ling Psych 1010 Introduction to Psychology -tests on survey of psychology including basic terms, concepts, and methods COGS 2160 Minds, Brains, and Machines -tests on the concepts and terms in artificial intelligence research, and the theoretical connection between cognition, computation and representation; practice in cross-disciplinary communication PHIL 3260 Philosophy of Psychology -papers and tests on the relationship between the concepts, theories and methods of philosophy and psychology; practice in cross-disciplinary communication PSYCH 3260 Cognition -tests on cognitive structures and processes involved in perception, memory, language, thinking, reasoning & problem solving COGS 4750 Honours Thesis in Cognitive Science OR COGS 4901 Honours Seminar in Cognitive Science -independent research project aimed at discovering aspects of the mind.

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2. Knowledge of Methodologies	-critically examine philosophical arguments -comprehend philosophical arguments -construct philosophical arguments -comprehend empirical research methods, including statistical methods, experimental design, in areas including neuroscience, developmental psychology, cognitive psychology, comparative psychology, linguistics -analyze empirical research methods, and critically examine the claims made in empirical studies	-engage in critical analysis of empirical and theoretical claims about the nature of mind -articulate theories about the nature of mind -discuss the current theories about the nature of mind, including evolution of mind; students should know the landscape and history of the various approaches to the study of mind -produce original research in philosophy, psychology, computer science, or linguistics -demonstration of the skills associated with some of the different methods used in cognitive science	CSE 1020 Introduction to computer science -tests and exercises to develop programming skills ITEC 1000 Introduction to information technologies -tests and exercises to develop competence with basic processes in information technologies LING 2120 Fundamentals of phonological analysis -tests and practice to analyze data from a wide variety of languages Ling 2140 Fundamentals of grammatical analysis -tests and practice to engage in syntactic analysis and knowledge of theories Phil 2100 Introduction to logic -tests and exercises for developing skills of logical analysis Psych 2020 Statistical methods 1 and 2 -develop statistical skills necessary to analyze and understand data from psychological research PSYCH 2030 Introduction to research methods -introduction to the use of experimental and non-experimental research methods by psychologists, including research design, external and internal validity, bias, ethics

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3. Application of Knowledge	-An ability to successfully perform in all the required courses -Completion of a thesis that serves to integrate the various methodologies and contents from those courses, and which demonstrates a sophisticated understanding of the topic of the thesis -The thesis consists of a lengthy paper (approximately 35-75 pages)	-engage in original research in at least one of the disciplines of cognitive science that incorporates the findings and methods of at least one other discipline	COGS 4750 Honours Thesis in Cognitive Science OR COGS 4901 Honours Seminar in Cognitive Science -independent research project aimed at discovering aspects of the mind. Thesis students will participate as a lab member supervised by a cognitive science faculty member. Seminar students will take part in a seminar that culminates in a conference in which students present their research projects.

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4. Communication Skills	-the ability to present material orally in class or to research groups -the ability to communicate an original thesis in writing	-give oral arguments and summaries of articles, including critical analysis -present original material to an audience in a conference setting	COGS 4750 Honours Thesis in Cognitive Science OR COGS 4901 Honours Seminar in Cognitive Science -independent research project aimed at discovering aspects of the mind. Thesis students will participate as a lab member supervised by a cognitive science faculty member. Seminar students will take part in a seminar that culminates in a conference in which students present their research projects.

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5. Awareness of Limits of Knowledge	-the limitations of each of the disciplines of cognitive science -the difficulties inherent with interdisciplinary research and communication -the usefulness of interdisciplinary collaboration	-work with other students and professors in different disciplines -communicate their ideas to people from other academic backgrounds -realize the difficulties with communicating across disciplines given the different jargons in these disciplines	Phil 3265 Philosophy of Mind -students learn different theories of the nature of mind PHIL 3260 Philosophy of Psychology -students learn the relationship between the concepts, theories and methods of philosophy and psychology; the theory laden nature of scientific research is discussed PHIL 3635 Philosophy of Neuroscience -the strengths and limitations of neuroscience technologies are examined

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6. Autonomy and Professional Capacity	-have the background needed to continue research at the graduate level -the ability to engage in independent research	-design and complete an independent research project -communicate the findings of the research project to others in philosophy, psychology, computer science, and linguistics	COGS 4750 Honours Thesis in Cognitive Science OR COGS 4901 Honours Seminar in Cognitive Science -independent research project aimed at discovering aspects of the mind. Thesis students will participate as a lab member supervised by a cognitive science faculty member. Seminar students will take part in a seminar that culminates in a conference in which students present their research projects.