PSYC*2650, Course Outline: Fall 2015

General Information

Course Title: Cognitive Psychology

Course Description: An introduction to theory, methods, and research findings in the field of cognitive psychology. Topics may include object recognition, attention, memory, language, categorization, imagery, judgment and reasoning. Students will be exposed to and participate in on-line laboratory demonstrations and experiments.

Credit Weight: 0.5

Academic Department (or campus): Department of Psychology

Semester Offering: Fall, 2015

Class Schedule and Location: Tuesdays and Thursdays, 5:30 - 6:50 p.m. Alexander Hall (ALEX) 200 (Formally Axelrod Hall (AXEL) 200)

Instructor Information

Instructor Name: Dr. Roderick W. Barron
Instructor Email: barron@psy.uoguelph.ca
Office location and office hours: 11:00 am – 1:00 pm Thursdays and by appointment

GTA Information

GTA Name: David De Vito
GTA Email: ddevito@uoguelph.ca
GTA office location and office hours: TBA

GTA Name: Anna Maria Giammarco
GTA Email: agiammar@uoguelph.ca
GTA office location and office hours: TBA

GTA Name: Caroll Lau
GTA Email: caroll@uoguelph.ca
GTA office location and office hours: TBA

GTA Name: Elizabeth Infante
GTA Email: einfante@uoguelph.ca
GTA office location and office hours: TBA

GTA Name: Heather Rodd
GTA Email: hrodd@uoguelph.ca
GTA office location and office hours: TBA

Course Content

Specific Learning Outcomes:

Learning Outcome 1: Critical and Creative Thinking

Facet 1: Depth and Breath of Understanding: Demonstrates knowledge of key concepts in psychology, and integrates that knowledge across disciplinary and sub-disciplinary boundaries. **Reinforce 2**: Understands and applies advanced concepts in core areas. Upon successful completion of this course, students will have

> developed a working knowledge of the theory and central research findings in Cognitive Psychology (**1.1.2**).
>
> learned about the major research methods used to study cognition (**1.1.2**)
>
> acquired first hand knowledge about some of the most widely used tasks in Cognitive Psychology (**1.1.2**)

Facet 2: Inquiry and Analysis: A systematic process of exploring issues, objects and works in psychology through the collection and analysis of evidence that result in informed conclusions or judgments. **Reinforce 2**: Recognizes the importance of supporting statements with evidence. Upon successful completion of this course, students will have

> thought critically about research in Cognitive Psychology, especially the relationships between experimental manipulations of task performance and inferences that are drawn about underlying cognitive processes (**1.2.2**)

Learning outcome 4: Communication

Facet 2: Written Communication: The ability to express one's ideas and summarize theory and research through a variety of writing styles (e.g., American Psychological Association [APA] style, term papers, posters). **Introduce 1**: Writes clearly and demonstrates general psychological knowledge when describing an idea. Upon successful completion of this course, students will have

> learned to provide clearly written descriptions of theoretical concepts in cognitive psychology and of the evidence pertaining to those concepts (**4.2.1**)

Facet 3: Reading Comprehension: The understanding of the theoretical and empirical literature in psychology. **Reinforce 2**: Understands sophisticated theoretical and empirical writing in psychology. Upon successful completion of this course, students will have

> read and understood the primary theoretical concepts in cognitive psychology and the evidence pertaining to those concepts (**4.3.2**).

Facet 4: Integrative Communication: A mental process that integrates existing psychological knowledge to develop and communicate new knowledge across the curriculum. **Reinforce 2:** Generates connections between psychological research and/or theory from more than one discipline or perspective. Upon successful completion of this course, students will have

> learned how research findings in Cognitive Psychology can be applied to understand "real world" issues and problems (**4.4.2**).

Lecture Content:

Lectures, Assigned Readings in Daniel Reisberg Cognition: Exploring the Science of the Mind (2013, 5th Edition), and Assigned Readings in Daniel Reisberg The Cognition Workbook: Essays, Demonstrations, and Explorations (2013, 5th Edition).

Sep. 10	Course Introduction and a Brief History of Cognitive Psychology (**Tex**t: Chapter 1, pp. 3 – 16)
Sep. 15, 17	Mind and Brain **(Text**: Chapter 2, pp. 29 – 52, 64 -70)
Sep. 22, 24	Object Recognition (**Text**: Chapter 3, pp. 75 – 114. **Workbook**: pp. 25 – 31, 33 - 35)
Sep. 29, Oct.1	Attention (**Text**: Chapter 4, pp. 117 – 145. **Workbook**: pp. 39 – 44)
Oct. 6	Attention (**Text**: Chapter 4, pp. 145 – 157. **Workbook**: pp. 45 - 47)
Oct. 8	**Exam 1 Review**
Oct. 13	Fall Study Break (no class)
Oct. 15	**Exam 1, Thursday, October 15 (32 Marks)**
Oct. 20, 22	Working Memory (**Text**: Chapter 1, pp. 16 – 26; Chapter 5, pp. 163 – 178. **Workbook**: pp. 53 – 60, 62 - 64)
Oct. 27, 29	Memory: Encoding and Retrieval (**Text**: Chapter 5, pp. 178 – 196; Chapter 6, pp. 200 – 206; Chapter 7, pp. 257 – 262; Chapter 10, pp. 389 – 393. **Workbook**: pp. 67 – 72, 79 - 80)
Nov. 3, 5	Memory: Awareness and Impairments (**Text**: Chapter 6, pp. 206 – 234. **Workbook**: pp. 72 -75, 80 – 82)
Nov. 10	**Exam 2 Review**
Nov. 12	**Exam 2, Thursday, November 12 (32 Marks)**
Nov. 17	Memory: Errors and their Origins (**Text**: Chapter 7, pp. 237 – 257. **Workbook**: pp. 87 – 94, 96 - 99)
Nov. 19	Concepts and Categorization (**Text**: Chapter 8, pp. 283 – 303.

	Workbook: pp. 103 – 107, 109 - 111)
Nov. 24	Visual Knowledge (**Text**: Chapter 10, pp. 363 – 388. **Workbook**: pp. 129 – 133, 135 - 137)
Nov. 26	Judgment and Reasoning (**Text**: Chapter 11, pp. 399 – 423. **Workbook**: pp. 141 - 149)
Dec. 1	Judgment and Reasoning (**Text**: Chapter 11, pp. 423 – 435. **Workbook**: pp. 158 - 162)
Dec. 3	Final Exam Review
Dec. 14	**Final Exam: Monday, December 14, 11:30 am – 1:30 pm (36 Marks)**

Labs:

The ZAPS access code ID will allow you to access the laboratory experiments in ZAPS: The Norton Psychology Labs website**:** http://www.wwnorton.com/ZAPS/ Follow the instructions provided on the website to access each of the assigned experiments. In addition to your access code ID, you will be asked for your class ID when you participate in most of the experiments on the ZAPS website. The class ID is **FQ7D9PT6** and it will allow the experimental data from all of the students in the class to be averaged. Experiments requiring a class ID are indicated with a *. Experimental results based upon the class average will be reported and discussed in class. The experiments assigned for each of the three exams are listed below along with the dates by which the experiments must be completed.

NOTE: The class lecture and discussion of the ZAPS experiments will be easier to understand and remember if you have completed the experiments assigned for each exam by the due dates indicated below and you have read the background information associated with each experiment on the ZAPS website. This background information is available for each experiment under the headings of Introduction, Experiment, Theory, and Further Information.

You are welcome to try additional ZAPS experiments and demonstrations in addition to those required.

ZAPS is a reliable website but there occasional problems. Temporarily disabling your pop up blockers tends to solve one common problem. Contact me if you have difficulties accessing the site or doing the experiments.

ZAPS Experiments assigned for Exam 1 (complete all four labs by Thursday, October 1)
Visual Search*
Feature Net
Attentional Blink*
Stroop Effect*

ZAPS Experiments assigned for Exam 2 (complete all four experiments by Thursday, October 29)
Memory Span*
Operation Span*

Serial Position Task*
Sternberg Search*
ZAPS Experiments assigned for the Final Exam (complete all four experiments by Thursday, November 26)
False Memory Task*
Sentence Verification*
Mental Rotation 2-D*
Mental Rotation 3-D*

Seminars: No seminars

Course Assignments and Tests:

Assignment or Test	Due Date	Contribution to Final Mark (%)	Learning Outcomes Assessed
Exam 1	**Thursday, October 15**	**32**	**1.1.2, 1.2.2, 4.3.2 and 4.4.2 assessed in multiple choice questions. 1.1.2, 1.2.2, 4.2.1, 4.3.2 and 4.4.2 assessed in short essay questions**
Exam 2	**Thursday, November 12**	**32**	**1.1.2, 1.2.2, 4.3.2 and 4.4.2 assessed in multiple choice questions. 1.1.2, 1.2.2, 4.2.1, 4.3.2 and 4.4.2 assessed in short essay questions**
Final Exam	**Monday, December 14, 11:30 am -1:30 pm**	**36**	**1.1.2, 1.2.2, 4.3.2 and 4.4.2 assessed in multiple choice questions. 1.1.2, 1.2.2, 4.2.1, 4.3.2 and 4.4.2 assessed in short essay questions**

Additional Notes (if required):
Exams 1 and 2 and the final exam will consist of multiple choice and short essay questions. All three exams will draw on material from the lectures and assigned readings in the textbook, the workbook, and the online ZAPS laboratory experiments. You will be responsible for all of the assigned textbook and workbook material even though some of it will not be covered in the lectures and you will be responsible for all of the material presented in lectures even though some of the material will not be covered in the assigned textbook and workbook readings. In

addition, you should participate in all of the ZAPS online laboratory experiments by the assigned dates. Background information about each experiment is provided in the ZAPS website and the experiments will be discussed in lecture. Each examination will include multiple choice and/or short essay questions on the ZAPS labs that will be based on your experience as a participant, the written commentary associated with each lab in the ZAPS website, and the class lectures dealing with the ZAPS labs.

Final examination date and time: Monday, December 14, 11:30 am – 1:30 pm

Final exam weighting: 36 percent

Course Resources

Required Texts:

Reisberg, D. (2013). Cognition: Exploring the science of the mind (5th Ed.). New York: W. W. Norton. (paper edition) Three copies on 2 hour reserve in the library.

> Do not use earlier editions of this textbook (i.e., 1st, 2nd, 3rd, or 4th) because the course content and assigned readings only correspond to the 5th edition.

Reisberg, D. (2013) The Cognition Workbook: Essays, Demonstrations, and Explorations (5th Ed.). New York: W. W. Norton (paper edition) Five copies on 2 hour reserve in the library.

> Do not use earlier editions of this workbook (i.e., 1st, 2nd, 3rd, or 4th) because the course content and assigned readings only correspond to the 5th edition.

ZAPS: The Norton Psychology Labs (online laboratory software)

> The textbook, the workbook, and an access code for ZAPS are for sale as a bundled package (ISBN 978-0-393-13840-5) in the bookstore. The package is the same price as the textbook alone. The ZAPS access code can be purchased separately online for $30.00 USD at http://www.wwnorton.com/ZAPS/ if, for example, you have purchased a used copies of the textbook.
>
> 3 copies of the text are on two hour reserve in the library and 5 copies of the workbook are on two hour reserve in the library.

Recommended Texts: No recommended texts
Lab Manual: No lab manual

Other Resources:

ZAPS: The Norton Psychology Labs (online laboratory software)

The textbook, the workbook, and an access code for ZAPS are for sale in the bookstore or online as a bundled package (ISBN 978-0-393-13840-5). The package is the same price as the textbook alone.

Field Trips: No field trips

Additional Costs:
If you buy the textbook alone (new or used) then you can purchase the access code for *ZAPS: The Norton Psychology Labs* for $30.00 US currency from the publisher of the textbook at http://www.wwnorton.com/ZAPS/ The bookstore also sells access codes but they may be more expensive. You can also purchase the *Cognition Workbook: Essays, Demonstrations, and Explorations* (5th Edition) separately.

Course Policies

Grading Policies

Absence From Examinations: You must contact the instructor by email (please include your student ID number and full name) or in person if you are unable to attend an examination as scheduled due to medical or compassionate reasons. No other reasons for missing an examination will be accepted (e.g., other exams on the same day, final exam conflicts, travel plans) unless justified on medical or compassionate grounds based on **prior consultation** with the instructor. You may need to document your claim for medical or compassionate consideration with a written note from a medical doctor and/or your program counselor.

Undergraduate Grading Procedures
Graduate Grade interpretation

Course Policy on Group Work: No group work

Course Policy regarding use of electronic devices and recording of lectures:

Electronic recording of classes is expressly forbidden without consent of the instructor. When recordings are permitted they are solely for the use of the authorized student and may not be reproduced, or transmitted to others, without the express written consent of the instructor.

University Policies

Academic Consideration

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor in writing, with your name, id#, and e-mail contact. See the academic calendar for information on regulations and procedures for

Academic Consideration:
Academic Consideration, Appeals and Petitions

Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community, faculty, staff, and students to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring.

University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection. Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:
Academic Misconduct Policy

Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the

University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible.

For more information, contact CSD at 519-824-4120 ext. 56208 or email csd@uoguelph.ca or see the website: Student Accessibility Services Website

Course Evaluation Information

Please refer to the Course and Instructor Evaluation Website **.**

Drop date

The last date to drop one-semester courses, without academic penalty, is Friday, November 6, 2015. For regulations and procedures for Dropping Courses, see the Academic Calendar: Current Undergraduate Calendar