

# PSYC323: Laboratory in Attention Fall session 2020

## Syllabus

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Class Time: Course delivery will be asynchronous such that there will be no specific class times. Material will be provided online throughout the term.

## Learning Outcomes

- x Develop an understanding of experimental methods for the study of human visual cognition.
- x Be able to design a visual cognition experiment.
- x Be able to manage, statistically analyze, and interpret experimental data.
- x Be able to research in depth an issue regarding visual cognition.
- x Be able to effectively communicate research concepts within the field of visual cognition.

## Course Format

### Research Units:

- x There will be three research units, each focusing on a particular topic in visual cognition.
- x Each research unit will last two weeks.
- x Each research unit will consist of the following
  - o Online lecture introducing the topic
  - o Reflection papers completed
  - o Readings discussed
  - o Experiment discussed
  - o Data from a relevant experiment will be provided
  - o Data analyzed
  - o Lab report written

### Tutorials:

- x There will be three tutorials, each focusing on a particular research tool used in visual cognition.
- x Tutorials will last one week.
- x Each tutorial will consist of the following:
  - o Professor presents material relevant to that tutorial.
  - o Completion of tutorial assignment.

### Research Proposal Poster:

- x At the end of the term, you will present your research proposals.
- x Poster presentations will last two weeks.

- x Each student will provide a poster and deliver a 5 minute presentation describing their research proposal.
- x Students and instructors will observe and evaluate the poster presentation and ask questions.

Date	Topic
Week 1 (Sep 8 - 11)	Introduction to Visual Cognition
Week 2 (Sep 14 - 18)	Data Management Tutorial
Week 3 (Sep 21 - 25)	Lecture Selective Attention (Sept 21) Reflection papers complete (Sept 23) Readings Discussed
Week 4 (Sep 28 - Oct 2)	Experiment Discussed Data Analysis Report Writing
Week 5 (Oct 5 - 9)	Signal Detection Tutorial
Week 6 (Oct 12 - 16)	Lecture: Working Memory and Attention (Oct 12) Reflection papers complete (Oct 14) Readings Discussed
Week 7 (Oct 19 - 23)	Experiment Discussed Data Analysis Report Writing
Week 8 (Oct 26 - 30)	

# Workload

## Reflection Papers

- x For each research unit, you will write a reflection paper. Reflection papers are designed to assess your understanding of
- x After each research unit lecture is released, a discussion question will be presented that centers around core theories, methodologies, or results. In a short reflection paper, you will address this question
- x Reflection papers should be no longer than one page in length.
- x Reflection papers will be due as follows
  - x Reflection paper 1: due Sept. 23
  - x Reflection paper 2: due Oct. 14
  - x Reflection paper 3: due Nov. 11

## Research Unit Reports

- x For each research unit, we will consider an experiment relevant to that research unit.
- x A data set will be provided
- x For each research unit, you will analyze the data set and complete and submit a research report (short intro, method, results, and short discussion).
- x Reports will be due as follows
  - o Research unit report due

Research Unit 2 Report	18%
Research Unit 3 Report	20%
Tutorial Assignments	18% (6% each)
Research Proposal Poster	20%

## Readings

There is no textbook. Readings will be posted at the beginning of each research unit. Readings will typically consist of one or two research articles which provides some background information on the research area.

## Grading Scheme

All components of this course will receive numerical percentage marks. The final grade you receive for the course will be derived by converting your numerical course average to a letter grade according to

regulations/regulation1), on the Arts and Science website (<https://www.queensu>

5. Assume the best of others.
6. It is okay to disagree with others but do not make personal attacks, demean, or embarrass others
7. Encourage others to develop and share their ideas.

## Copyright of Course Material

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