DETAILED COURSE OUTLINE

A. COURSE OVERVIEW

Department: Psychology

Subject/Catalog Number(s): PSYC221

Single or Multi-Term Course: Single Term

Course Units: 3.0

Course Title: Cognitive Psychology

Course Calendar Description

Cognitive psychoG/92 reW* nBT/Fo-: 6ETQisTJ EThe Satisting. With the human brain

considered to be the most complex object known to exist, and maybe the most powerful learning system known to exist, the study of the thinking processes it produces is immensely challenging. With this complexity and the challenge of using our own thinking to study human thinking, cognitive psychology represents a rich and fascinating research domain.

Prerequisites

PSYC 100/6.0 Principles of Psychology

Learning Hours

Learning hours include in-class lecture/seminar/laboratory/tutorial hours (formerly referred to as contact hours) and out-of-class online/private study hours. This information will be the basis for setting up the course components in PeopleSoft, and should be consistent with the proposed units assigned to the course. For example, a 3.0-unit course would normally require from 110 to 130 total learning hours or hours on task.

	Seminar		
	Laboratory		
	Tutorial		
	Practicum		
	Group learning		
	Individual		

Weeks 4, 6, 8, 10, and 12:

- o You will complete a cognitive lab, and submit a written assignment (maximum 2 pages in length). Each written assignment is designed to demonstrate your understanding of that week cognitive lab.
- o Each cognitive lab will be worth 10 points (rubric provided for each individual lab).
- o Your final cognitive lab grade will be based on your best 4 cognitive labs.

Final Exam

The Final Exam is three hours in length and includes multiple-choice and short answer questions based

Adherence to the values expressed through academic integrity forms a foundation for the "freedom of inquiry and exchange of ideas" essential to the intellectual life of the University; see Senate Report on Principles and Priorities

http://www.queensu.ca/secretariat/policies/senateandtrustees/principlespriorities.html.

Grade	Numerical Course Average (Range)
A+	90-100
А	85-89
A-	80-84
B+	77-79
В	73-76
B-	70-72
C+	67-69
С	63-66
C-	60-62
D+	57-59
D	53-56
D-	50-52
F	49 and below

Student Resources

The Library

o http://library.queensu.ca

Writing Services

o http://sass.queensu.ca/writingcentre/

Student Wellness Services support the personal, academic and social development of students at Queen's University by providing a range of programmes and services.

o http://www.queensu.ca/studentwellness/

Career Services offers students various services including workshops.

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Week 8 March 6-12 Module 8 Outline Goldstein Chapter 8 Chapter 8 Video Lessons Cognitive Lab #3 Quiz#6 (Chapter 7)

Opens March 6 @ 9am Due

PSYC 221: Cognitive Psychology Module Outlines, Winter 2017

Module 1: Introduction to Cognitive Psychology

Learning Outcomes

By the end of this module, you will

Outline key historical developments in the history of cognitive psychology. Describe the impact of behaviourism on the study of mind.

Module 2: Cognitive Neuroscience

Learning Outcomes

By the end of this module, you will

Discuss how neurons represent information.

Explain localization of function and the principle of double dissocations.

Describe in basic terms how functional magnetic resonance imaging works.

Describe how brain imaging has contributed to our understanding of brain function.

Explain the concept of distributed representations.

Learning Resources



Learning Activities (see course timeline for specific due dates)

- 1. Participate in the introduction to discussion forum (not graded).
- 2. Complete introduction to cognitive labs (not graded).

Module 4: Attention

Learning Outcomes

By the end of this module, you will

Module 5: Short-Term and Working Memory

Learning Outcomes

By the end of this module, you will

Explain major models of short-term and working memory, in particular the modal model.

Identify and explain the key characteristics of short-term memory.

Describe the key components of working memory, in particular the phonological loop and the visuospatial sketch pad

Describe how working memory is implemented in the brain.

Explain how empirical evidence informs our understanding of short-term and working memory.

Learning Resources



Learning Activities

Complete Quiz #3 based on week 4 materials (chapter 4) Participate in Discussion Forum #2

Module 6: Long-Term Structure

Learning Outcomes

By the end of this module, you will

Compare the relation between short-term and long-term memory processes.

Compare the relation between episodic and semantic memory.

Explain automatic aspects of long-term memory, in particular procedural memory, priming, and conditioning.

Describe how long-term memory is implemented in the brain.

Describe how empirical evidence informs our understanding of long-term memory.

Learning Resources

Required Reading	Video Lessons	Further Exploration (not required)
Read Goldstein Chapter 6	Chapter 6 Video Lessons	· ,

Learning Actinn

Module 8: Everyday Memory and Memory Errors

Learning Outcomes

By the end of this module, you will

Identify and describe key characteristics of autobiographical memory.

Describe how memory for exceptional events is unique, especially in terms of its connection with emotion.

Discuss

Describe the fallibility of memory in particular how it can be modified and how false memories can be created

Explain how the fallibility of memory has real world consequences, in particular in terms of eyewitness memory.

Learning Resources



Learning Activities

- 1. Complete Quiz #6 based on week 7 materials (chapter 7)
- 2. Complete Cognitive Lab Assignment #3

Module 9: Knowledge

Learning Outcomes

By the end of this module, you will

Module 10: Language

Learning Outcomes

By the end of this module, you will

Describe the word superiority effect and its implications for language processing.

Describe the word frequency effect.

Explain the concept of coherence and how inference helps produce coherence.

Explain syntactic co-ordination and describe how syntactic priming has been used to support syntactic co-ordination.

Compare the syntax-first approach and the interactionist approach to parsing.

Describe the Sapir-Whorf hypothesis, and empirical evidence that supports this hypothesis.

Learning Resources



Learning Activities

Complete quiz #8 based on week 9 materials (chapter 9) Complete Cognitive Lab Assignment #4

Module 11: Problem Solving

Learning outcomes

By the end of this module, you will

Describe the gestalt approach to the understanding of problem-solving.

Describe the information approach to the understanding of problem-solving.

Explain how analogies are used to solve problems.

Describe differences between how experts and novices solve problems, and limitations on expertise in problem-solving.

Describe the role of creativity in problem-solving.

Learning Resources



Learning Activities

- 1. Complete Quiz #9 based on week 10 materials (chapter 11)
- 2. Participate in Discussion Forum #5

Module 12: Judgement, Decisions, and Reasoning

Learning Outcomes

By the end of this module, you will

Explain the concept of heuristics and provide examples.

Describe factors that influence decision making processes.

Describe the mental model approach to reasoning.

Explain the concept of conditional syllogism and describe the types of syllogisms.

Explain the Wason four-card problem.

Explain the dual systems approach to thinking.

Learning Resources



Learning Activities

- 1. Complete Quiz #10 based on week 11 materials (chapter 12)
- 2. Complete Cognitive Lab Assignment #5

Extra stuff in case I rearrange chapters covered:

Week 13

Topics

Judgment, decisions, and reasoning

Unit learning outcomes

Add unit level learning outcomes.

Readings

Goldstein Chapter 13

Activities