



# PSY 3500 Cognition



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Spring Semester 2012

**Instructor:** Joshua D. Marquit, Ph.D.

**Course Location:** Room 323, Social and Behavioral Science Building, WSU – Ogden Campus

**Course Time:** Wednesday, 5:30 to 8:20pm

**Email:** joshuamarquit@mail.weber.edu

**Office/Cell Phone:** (435) 757-7023; I'm available by phone from 9am until 10pm each weekday

**Office:** Room 325, Social and Behavioral Science Building

**Office Hours:** Tuesday, 1 to 3pm and Thursday, 2 to 4pm or by appointment

**Contact Policy:** I am accessible to my students by email, phone, and through Canvas. When sending emails, please use my WSU Gmail account (joshuamarquit@mail.weber.edu).

## Required Reading Materials

- Goldstein, E.B. (2010). *Cognitive Psychology: Connecting Mind, Research and Everyday Life with Coglab Manual* (3<sup>rd</sup> Ed.). Belmont, CA: Wadsworth Publishing.
  - ISBN-13: 978-08400-3355-0
  - ISBN-13: 978-1-133-62355-7 (eBook Option)

**Additional Readings:** Additional readings will be assigned throughout the semester and will be available via Canvas at WSU Online (<http://learn-wsu.uen.org>). These readings will be peer-reviewed journal articles or book/textbook chapters and will be provided in .pdf format.

## Course Description and Content:

This course is designed to introduce students to the basic concepts, principles, and applications of cognitive psychology. Specifically, this course will cover a broad range of topics including a brief history of cognitive psychology, research in cognitive psychology, cognitive neuroscience, perception, attention, short- and long-term memory, visual imagery, language, emotions and cognition, problem solving, and decision making.

## Course Objectives:

There are five key learning objectives for this course. All class activities (e.g. readings, lectures, labs, exams, quizzes, etc.) are designed to help students meet, and/or assess their progress on, these objectives. In this class, students will:

1. Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in the field of cognitive psychology.
2. Understand and apply basic research methods in cognitive psychology.
3. Understand and apply basic cognitive psychology principles and theory to personal, social, and organizational issues.
4. Develop insight into their own and others' behavior and cognitive processes.
5. To apply the information learned to individual professional fields of interest.

## Course Structure:

This course is a lecture course and students will be expected to demonstrate their learning through lecture preparation and participation, lab and writing assignments, a group presentation, quizzes, and

examinations. The purpose of class lectures is to elaborate on material presented in the textbook, conduct skill-building exercises and demonstrations, and to provide a forum for discussion.

### Weekly Readings:

Cognitive Psychology: Connecting Mind, Research, and Everyday Experience (3<sup>rd</sup> Edition) by Goldstein is required reading. I will also provide additional items throughout the semester for you to read. These additional readings will be posted on Canvas in .pdf format.

### Grading and Evaluation:

There are 800 points possible in this course. Your grade for this course will be calculated from several areas, as detailed below.

Percentage	Grade
93 - 100	A
90 - 92.99	A-
87 - 89.99	B+
83 - 86.99	B
80 - 82.99	B-
77 - 79.99	C+
73 - 76.99	C
70 - 72.99	C-
67 - 69.99	D+
63 - 66.99	D
0 - 62.99	E

Evaluation Activity	Due Date	Point Total
<b>Quizzes</b>		
Quiz #1: Chapter 1	Available 1/5 to 1/11	10
Quiz #2: Chapter 2	Available 1/12 to 1/18	10
Quiz #3: Chapter 3	Available 1/19 to 1/25	10
Quiz #4: Chapter 4	Available 1/26 to 2/1	10
Quiz #5: Chapter 6	Available 2/9 to 2/15	10
Quiz #6: Chapter 7	Available 2/16 to 2/22	10
Quiz #7: Chapter 8	Available 2/23 to 2/29	10
Quiz #8: Chapter 11	Available 3/8 to 3/21	10
Quiz #9: Chapter 12	Available 3/22 to 3/28	10
Quiz #10: Chapter 13	Available 3/29 to 4/4	10
<b>Coglab Assignments</b>		
Lab #1: Blind Spot	Part 1: 1/10 at Midnight Part 2: 1/11 in Class	25
Lab #2: Brain Asymmetry	Part 1: 1/17 at Midnight Part 2: 1/18 in Class	25
Lab #3: Apparent Motion	Part 1: 1/24 at Midnight Part 2: 1/25 in Class	25
Lab #4: Change Detection	Part 1: 1/31 at Midnight Part 2: 2/1 in Class	25
Lab #5: Partial Report	Part 1: 2/7 at Midnight Part 2: 2/8 in Class	25
Lab #6: Implicit Learning	Part 1: 2/14 at Midnight Part 2: 2/15 in Class	25
Lab #7: Encoding Specificity	Part 1: 2/21 at Midnight Part 2: 2/22 in Class	25
Lab #8: False Memory	Part 1: 2/28 at Midnight Part 2: 2/29 in Class	25
Lab #9: Mental Rotation	Part 1: 3/6 at Midnight Part 2: 3/7 in Class	25
Lab #10: Lexical Decision	Part 1: 3/20 at Midnight	25

	<b>Part 2: 3/21 in Class</b>	
Lab #11 Monty Hall	<b>Part 1: 3/27 at Midnight Part 2: 3/28 in Class</b>	<b>25</b>
Lab #12: Risky Decisions	<b>Part 1: 4/3 at Midnight Part 2: 4/4 in Class</b>	<b>25</b>
<b>Examinations</b>		
Exam #1: Chapters 1-4	<b>Available 2/2 to 2/12</b>	<b>100</b>
Exam #2: Chapters 5-8	<b>Available 3/1 to 3/11</b>	<b>100</b>
Exam #3: Chapters 10-13; Readings on Emotions and Cognition	<b>Available 4/12 to 4/19</b>	<b>100</b>
Group Presentation		<b>75</b>
Class Participation		<b>25</b>
<b>Total Points</b>		<b>800</b>

### Quizzes:

There will be 10 quizzes throughout the semester. Each quiz will consist of both multiple-choice and short answer questions. Questions will be created from class reading materials. Each quiz will be worth 10 points. Quizzes will be available for you to complete on Canvas from 7am on the Thursday after class until the following Wednesday at 5 pm. There will be no make-up quizzes.

### Lab Assignments:

The Lab Assignments are designed to give students the opportunity to learn about and participate in cognitive psychology-related research. Throughout the semester, students will participate in 12 Lab Assignments, each worth 25 points. These Lab Assignments are divided into two separate submissions. First, you will need to complete the assigned lab electronically on *Coglab* on or before Midnight on the Tuesday before the assignment is due. Second, you will need to answer the Basic Questions at the end of each *CogLab* on a separate Word document and hand it in at the start of each Wednesday evening class.

Late Lab Assignments will receive an immediate 5-point deduction with an additional 5-point deduction for each additional day late.

- **Lab Assignment #1:** Blind Spot (Neurocognition)
- **Lab Assignment #2:** Brain Asymmetry (Neurocognition)
- **Lab Assignment #3:** Apparent Motion (Perception)
- **Lab Assignment #4:** Change Detection (Attention)
- **Lab Assignment #5:** Partial Report (Sensory Memory)
- **Lab Assignment #6:** Implicit Learning (Concepts – LTM: Structure)
- **Lab Assignment #7:** Encoding Specificity (Memory Processes – LTM: Encoding and Retrieval)
- **Lab Assignment #8:** False Memory (Metamemory – Memory errors)
- **Lab Assignment #9:** Mental Rotation (Imagery)
- **Lab Assignment #10:** Lexical Decisions (Speech and Language)
- **Lab Assignment #11:** Monty Hall (Judgment)
- **Lab Assignment #12:** Risky Decisions (Judgment)

### Exams:

The three exams will consist of both multiple-choice and short answer questions. Questions will be created from class material (course lectures and class discussions) and reading assignments. Each exam is worth 100 points and will not be cumulative. In order to take a make-up exam, you will need to inform me well in advance (except in the case of a properly documented, university-approved emergency), and make necessary arrangements to take the exam. Those that fail to do this will receive an immediate 10-point reduction on your score, and 10-point deduction for each additional day that the exam remains

incomplete. All of the exams are open-book and will be available for you to complete on Canvas. You will be given approximately 7 to 10 days to complete each exam.

### **Group Presentation:**

In groups of three or four, students will select a topic in the field of psychology, research the topic, and deliver a presentation on what they have learned to the class. Each group must select one peer-reviewed article from their research for the class to read prior to their presentation. The article should be sent to the entire class a week in advance of their presentation. Group presentations should last approximately 30 minutes in length. Each of the four members of the group should speak for at least 6-8 minutes in length. You may use short video clips in your presentation to elaborate a point. Your group presentation is worth 75 points. Your grade will depend on three evaluations: 1) my evaluation, 2) the class' evaluation, and 3) your group members' evaluations of your performance.

### **Class Participation:**

Class participation is vital to your success in this course. Students are expected to read the course material and be prepared to contribute to class discussions in meaningful ways. In order to improve the learning environment in class, students will be asked to think critically about course content, construct and express opinions, and be respectful of other students in class. Class participation is worth 25 points.

### **Students with Disabilities:**

Qualified students with disabilities may be eligible for reasonable accommodations. If a student has a disability that will likely require some accommodation by the instructor, the student must contact the instructor and document the disability through the Services for Students with Disabilities (Davis Campus - Room 221, 801-395-3524 or Ogden Campus - Student Services Center, Room 181, 801-626-6413), preferably during the first week of the course. Any request for special consideration relating to attendance, pedagogy, taking of examinations, etc., must be discussed with and approved by the instructor. In cooperation with the Services for Students with Disabilities, course materials can be provided in alternative format, large print, audio, diskette, or Braille.

### **Academic Integrity and Honesty:**

Plagiarizing, cheating, or violating other reasonable standards of behavior will not be tolerated. Any student who engages in academically dishonest behavior will receive an "E" for the course grade. All incidents of cheating will be reported for university-level disciplinary proceedings the results of which can include probation, suspension, expulsion, the assignment of HV (honors violation) to the students permanent transcript, etc.

### **Changes in Assignments and Schedule:**

The instructor reserves the right to make changes to this syllabus at any time. Changes will be announced in class and posted on Canvas.

## Tentative Course Schedule:

Month	Date	Class Session	Readings	Assignment, Quiz, & Exam Due Dates
January	4	Introduction; Syllabus Review; Group Presentation Assignments; Brief Introduction to Cognitive Psychology		
January	11	Introduction to Cognitive Psychology	Ch. 1	- Quiz #1: Chapter 1, Available on Canvas from 1/5 to 1/11. - Lab #1: Blind Spot- <i>Coglab</i> is due at Midnight on Tuesday, 1/10 and the Write-up is due in class on 1/11.
January	18	Cognitive Neuroscience	Ch. 2	- Quiz #2: Chapter 2, Available on Canvas from 1/12 to 1/18. - Lab #2: Brain Asymmetry - <i>Coglab</i> is due at Midnight on Tuesday, 1/17 and the Write-up is due in class on 1/18.
January	25	Perception	Ch. 3	- Quiz #3: Chapter 3, Available on Canvas from 1/19 to 1/25. - Lab #3: Apparent Motion - <i>Coglab</i> is due at Midnight on Tuesday, 1/24 and the Write-up is due in class on 1/25.
February	1	Attention; Exam #1 Review	Ch. 4	- Quiz #4: Chapter 4, Available on Canvas from 1/26 to 2/1. - Lab #4: Change Detection - <i>Coglab</i> is due at Midnight on Tuesday, 1/31 and the Write-up is due in class on 2/1.
February	8	Short-term and Working Memory	Ch. 5	- Exam #1: Chapters 1-4 – Available on Canvas from 2/2 at 7am until 2/12 at Midnight. - Lab #5: Partial Report - <i>Coglab</i> is due at Midnight on Tuesday, 2/7 and the Write-up is due in class on 2/8.
February	15	Long-term Memory: Structure	Ch. 6	- Quiz #5: Chapter 6, Available on Canvas from 2/9 to 2/15. - Lab #6: Implicit Learning - <i>Coglab</i> is due at Midnight on Tuesday, 2/14 and the Write-up is due in class on 2/15.
February	22	Long-term Memory: Encoding and Retrieval	Ch. 7	- Quiz #6: Chapter 7, Available on Canvas from 2/16 to 2/22. - Lab #7: Encoding Specificity - <i>Coglab</i> is due at Midnight on Tuesday, 2/21 and the Write-up is due in class on 10/22.
February	29	Everyday Memory and Memory Errors; Exam #2 Review	Ch. 8	- Quiz #7: Chapter 8, Available on Canvas from 2/23 to 2/29. - Lab #8: False Memory - <i>Coglab</i> is Due at Midnight on Tuesday, 2/28 and the Write-up is due in class on 2/29.
March	7	Visual Imagery	Ch. 10	- Exam #2: Chapters 5-8 – Available on Canvas from 3/1 at 7am until 3/11 at Midnight. - Lab #9: Mental Rotation - <i>Coglab</i> is Due at Midnight on Tuesday, 3/6 and the Write-up is due in class on 3/7.
March	14	Spring Break – No class		
March	21	Language	Ch. 11	- Quiz #8: Chapter 11, Available on Canvas from 3/8 to 3/21. - Lab #10: Lexical Decision - <i>Coglab</i> is Due at Midnight on Tuesday, 3/20 and the Write-up is due in class on 3/21.
March	28	Problem Solving	Ch. 12	- Quiz #9: Chapter 12, Available on Canvas from 3/22 to 3/28. - Lab #11: Monty Hall - <i>Coglab</i> is Due at Midnight on Tuesday, 3/27 and the Write-up is due in class on 3/28.
April	4	Reasoning and Decision Making	Ch. 13	- Quiz #10: Chapter 13, Available on Canvas from 3/29 to 4/4. - Lab #12: Risky Decisions - <i>Coglab</i> is Due at Midnight on Tuesday, 4/3 and the Write-up is due in class on 4/4.
April	11	Emotions and Cognition; Exam #3 Review	Readings	
April	18	Exam # 3		- Exam #3: Chapters 10-13; Readings on Emotions and Cognition - Available on Canvas from 4/12 at 7am until 4/19 at Midnight.