

207.304 COGNITIVE PROCESS AND LAB
Seoul National University
Fall 2015

Instructor: Dr. Sowon Hahn
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Class Meeting: Tue/Thu 9:00-10:50 AM @ Building 83-402

TEXTBOOK:

(1) Cognition: Exploring the Science of the Mind, 5/e (IE) 2013|9780393920734 by Daniel Reisberg
(2) Access to Zaps – The Norton Psychology Labs (This is free when packaged with the new textbook listed above, or you can purchase the stand-alone version.)

Step 1: Go to wwnorton.com/ZAPS

Step 2: Click on **Register**

Step 3: Fill out all fields and click **Submit**

Step 4: Click **Enter the Site**

COURSE OBJECTIVES:

This course provides an overview of cognitive psychology. Cognitive psychology is a laboratory-based science investigating the mental processes that allow us to remember the name of our 3rd grade teacher yet forget what we had for dinner last night, to notice our name in somebody else's conversation at a party yet keeps us from hearing Mom ask us to take out the garbage. Although most of what we know about cognitive psychology has arisen from controlled laboratory experiments, it impacts your everyday life in many ways. The goals in this course are to present the laboratory-based foundation on which cognitive psychology is built and to make that information relevant. You will read journal articles and conduct some cognitive psychology experiments by using the online experiment tool "Zaps" provided by the publisher. After completing this class, you will have a good grounding in cognitive psychology, its methods and theoretical outlook, and an ability to capitalize on this knowledge to improve the quality of your mental life (e.g., improved study habits, enhanced memory, make better decisions) as well as understand the cognitive principles that underlie these improvements.

COURSE COMPONENTS

The course is built around the textbook listed above. The course consists of lecture, chapter discussion, article summary, and Zaps experiments. We will cover the chapters from the text grouped into five modules. Each module consists of 2-3 chapters and their discussion questions, one article summary, and two Zaps experiments. The content and due dates for each module are outlined below; the article summary and Zaps experiments for each module must be submitted to ETL before the deadline.

DISCUSSION TOPIC

You will be required to **post a 1-2 page comment paper** to a question that is posted on ETL discussion board. There will be 10 discussion topics. There will be several questions and you can choose one to which to respond. This comment must extend what they are saying, or raise an interesting point/question regarding what was said. The discussion topic will be used for in-class group discussion. The discussion comment papers are worth **5 points each** for a total of **50 points**.

ARTICLE SUMMARIES

There is a research article assigned for each module. These articles are meant to allow more in-depth learning about a key topic in the field of cognitive psychology. Your assignment is to write a **1-2 page summary** of the article that includes: (1) the goal of the research, (2) methods used, (3) the conclusions, and (4) your impressions of the work. These writing assignments are designed to make you think in depth about

the topics and to give you some writing experience. Written assignments should be submitted electronically to **ETL** by the due date. The summaries are worth **10 points each** for a total of **50 points**.

ZAPS PSYCHOLOGY EXPERIMENT REPORT

There are 10 online psychology experiments you are required to complete. Your assignment is to conduct the assigned experiment and submit a 1-page report including the hypothesis, summary of your results, and interpretation. **Zaps Experiment reports** should be submitted to the **ETL by the due date**. Each Zaps Experiment Report is worth 5 points.

1. Split-Brain
2. Implicit Learning
3. Ames Room
4. Visual Search
5. Attentional Blink
6. Stroop Effect
7. Brown-Peterson Task
8. False Memory Task
9. Mental Rotation 3-D
10. Word Superiority

EXAMS

There are **two exams** and each exam will include **50 multiple-choice questions**. Exams will not be offered early. Material for the exams will be drawn from the textbook, assigned articles, and Zaps Experiment. **Each exam is worth 100 points**.

Grades

Class Participation	30 points
Discussion	50 points
Article Summaries	20 points
Zaps Experiment Report	50 points
Exams	200 points

Total	350 points

DUE DATES AND DEADLINES

You may work ahead of the following schedule, and submit your assignment early. But weekly assignments must be submitted to ETL by **Friday 11:59 PM** (unless otherwise indicated) on the due dates.

Schedule:

Week	Tuesday	Thursday	Assignments
Sep 1	Introduction	Chapter 1	Discussion 1: Introduce yourself
Sep 8	Chapter 2	Chapter 2 – Movie: Secrete of the Mind	Discussion 2: Drugs, Brain, and Behavior Discussion 3: Recognizing objects
Sep 15	Chapter 3	Class Discussion -Brain & Behavior	Zaps Experiment Report 1. Split Brain 2. Implicit Learning
Sep 22	Chapter 4	Class Discussion - Perception & Attention	Discussion 4: Attention
Sep 29	No class	Chapter 5	Zaps Experiment Report 3. Ames Room 4. Visual Search

Oct 6	Chapter 6	Movie – False Memory	Discussion 5: Memory
Oct 13	Chapter 7	Class Discussion - Memory	Article Summary 1: Niedenthal, P. M. (2007). Embodying emotion. <i>Science</i> , 316, 1002-1005.
Oct 20	Exam 1	Chapter 8	Discussion 6: Concepts Discussion 7: Language
Oct 27	Chapter 9	Class Discussion - Concepts	Zaps Experiment Report 5. Attentional Blink 6. Stroop Effect
Nov 3	Chapter 10	Class Discussion - Language	Discussion 8: Judgment and Reasoning
Nov 10	Chapter 11	Class Discussion - Judgment	Zaps Experiment Report 7. Brown-Peterson Task 8. False Memory Task
Nov 17	Chapter 12	No class	Discussion 9: Intelligence Discussion 10: Consciousness
Nov 24	No class	Class Discussion - Intelligence	Zaps Experiment Report 9. Mental Rotation 3-D 10. Word Superiority
Dec 1	Chapter 13	Class Discussion - Consciousness	Article Summary 2: Ramachandran, V. S., & Oberman, L. M. (2006). Broken mirrors: A theory of autism. <i>Scientific American</i> , 295, 62-69.
Dec 8	Exam 2		