

Psych 220-02
Fall
Kranjec

Psychology 220-02: BRAIN, BEHAVIOR & COGNITION

~~Spring 2013~~

Fall 2014

Prof. Alexander Kranjec

217 Rockwell Hall

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Office Hours: Tuesdays 1:30-2:30pm or by appointment

Teaching Assistant

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Where: 503 Rockwell Hall

When: Tuesday & Thursday 12:15pm– 1:30pm

Required Text: Ward, J. (2010). The Student's Guide to Cognitive Neuroscience (2nd Edition). Psychology Press.

This text is available for purchase at the bookstore.

Additional assigned readings will be available on **Blackboard**.

COURSE GOALS

- To better understand the fundamental concepts, methods, and areas of cognitive neuroscience research
- To learn about major functional-anatomical relations in the brain
- To think critically and creatively about cognitive neuroscience in a way that makes you a better consumer of research reported in the popular press
- To consider the ethical and broader philosophical implications of recent findings in cognitive neuroscience

COURSE POLICIES AND PROCEDURES

Course Web Page

Important information, including changes to the syllabus, lectures, study guides, additional readings, upcoming events, and links to other resources, will be posted on **Blackboard**.

Evaluation

The exams are designed to assess your ability to understand and retain important concepts. They will also test your abilities to think about the implications of results, predictions made by theories, and hypothesis testing. Exams will consist of multiple choice and short answer questions. There are three exams, and a final each worth 100 points. Exams are *not* cumulative. The final will *mostly* cover material from the last quarter of the course. You may drop the lowest of the three exam grades. (The final exam grade cannot be dropped.) Exams cannot be rescheduled except under extraordinary circumstances.

Grading

≥93% (≥279 out of 300 pts)	A
≥90%<93%	A-
≥87%<90%	B+
≥83%<87%	B
≥80%<83%	B-
≥77%<80%	C+
≥70%<77%	C
≥60%<70%	D
<60%	F

Class Participation and Attendance

This class will involve both lecture and class discussion. It is important that you be involved in the class! This includes reading, asking questions, discussing readings, etc. Also, students who engage in discussion regularly may be rewarded if they find themselves on the boundary between a higher and lower grade at the end of the semester. You should also come to class! **I will take attendance randomly 3 times. You must be in class for 2 of those 3 times not to lose points on your final grade.** Without reading on schedule AND attending lectures it will be very difficult to understand the material and earn a high grade. Furthermore, the material we discuss in class is the best predictor of the material you will be tested on.

COURSE SCHEDULE

Note that this schedule and readings are subject to change. Please do the readings before class, so that you can be prepared to learn from lectures and participate in class discussions. Any updates will be announced in class, and will also be posted on **Blackboard**.

DATE	TOPIC	READING
26-Aug	Course description / Introduction: An example of cognitive neuroscience	
28-Aug	History of cognitive neuroscience	Chapter 1
2-Sep	Neurons and Neuroanatomy	Chapter 2
4-Sep	Neurons and Neuroanatomy	
9-Sep	Theory & Methods, Part 1 (neuropsychology, TMS ,tDCS)	Chapter 5
11-Sep	Theory & Methods, Part 2	
16-Sep	Theory & Methods, Part 3 (fMRI, ERP, EEG, MEG)	Chapters 3 & 4
18-Sep	Theory & Methods, Part 4	<i>NYT editorials & commentary</i>
23-Sep	EXAM 1	
25-Sep	Language Part 1	Chapter 11 + <i>Pinker (Ch. 1 & 2)</i>
30-Sep	Language Part 2	
2-Oct	Language Part 3	
7-Oct	Language Part 4	<i>Pinker (Ch. 3)</i>
9-Oct	Speech and hearing	Chapter 10
14-Oct	Speech and hearing	
16-Oct	Reading, spelling	Chapter 12
21-Oct	EXAM 2	
23-Oct	Memory, Part 1	Chapter 9
28-Oct	Memory, Part 2	
30-Oct	Vision: From eye to brain	Chpt. 6, pp 103-113
4-Nov	Vision: Objects and Faces	Chpt. 6, pp 113-127
6-Nov	Space and Attention	Chapter 7
11-Nov	Space and Attention	
13-Nov	EXAM 3	
18-Nov	Action and Motor system, Part 1	Chapter 8
20-Nov	Action and Motor system, Part 2	<i>Ramachandran (Ch. 2 & 3)</i>
	THANKGIVING BREAK	
2-Dec	Social cognitive neuroscience	Chapter 16
4-Dec	Social cognitive neuroscience + Review	
9-Dec	NO CLASS (Monday Schedule)	
15-Dec	EXAM 4	FINALS WEEK 1:30pm