

Psychology 201: Mind and Brain

Winter 2017 (CRN 25327), MW 2:00-3:50, 156 Straub

Instructor: Prof. Margaret Sereno

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Office hours: Tuesday 4:00-6:00 or by appointment

Graduate Teaching Fellows (GTFs): If you think you have a question that could be answered by the Graduate Teaching Fellows, please try them first. Contacting your *assigned* GTF is preferred (see below), but feel free to attend the office hours that work best for you if your schedule is constrained.

*Note that Zhen Cheng is unavailable for office hour visits in January.

If your last name begins with A–F:

Liz Loi, 332 Straub, loi@uoregon.edu

Office hours: Wed 9:45-11:45 or by appointment

If your last name begins with G–O:

Adam Pettitt, 332 Straub, pettitta@uoregon.edu

Office hours: Mon 11:00-12:00 and Tues 3:00-4:00 or by appointment

If your last name begins with P–Z:

Zhen Cheng, 336 Straub, zcheng@uoregon.edu

*Office hours: Wed 4:00-6:00 or by appointment **starting February 1st**.

Course Content: Mind & Brain is part of a two-course sequence (with Mind & Society, PSY202) that provides an overview of introductory psychology. This course covers experimental approaches to the study of the human mind and brain. Topics covered include the history and methods of psychological research, the organization of the nervous system, sensation, perception, attention, learning, memory, and language.

Learning Outcomes: Students fully engaged in this course will become familiar with the history and methods of psychological research and many core concepts from the psychology and neuroscience of perception and cognition, as well as develop a new appreciation for how we perceive and interact with the world and how the world influences our behaviors.

Course Website: The course website on Canvas (canvas.uoregon.edu) will provide important supplemental information for the course (syllabus, readings, lecture slides, study guides, assignments, course links, grades, etc.).

Required Materials (available at the UO Bookstore): *Psychological Science* by Gazzaniga, Halpern, and Heatherton (2015, 5th edition). A copy of the text is on reserve at the Knight Library, available for a 90 minute checkout period. Links to optional study activities from the textbook publisher (flashcards, practice quizzes, etc.) will be made available on the course website on Canvas (canvas.uoregon.edu).

If purchased from the UO Bookstore, the textbook will come packaged with a registration code that allows access to an *e-book* version of the text, *ZAPS* online labs, and the *InQuizitive* adaptive learning environment. If you choose to obtain a copy of the text from a source other than the bookstore (or if you prefer to rely only on the e-book version of the text without a printed copy), it is possible to purchase these electronic components of the text directly from the publisher at digital.wwnorton.com/psychsci5. *ZAPS* and *InQuizitive* assignments will be due every week throughout the term.

iClickers: iClickers are small hand-held electronic devices that allow you to provide an immediate response to questions posed in class as part of your participation/attendance grade. Although the UO Bookstore sells only the iClicker 2, older versions of the iClicker should work fine

in this course. It is very important that you register your iClicker on the Canvas site (see below), and *bring your iClicker with you to every class!*

Course Format: The material in this course will be presented through a combination of assigned readings from the text, class lectures, in-class discussions, demonstrations, and participation in research. In addition, on-line laboratory assignments (ZAPS labs) will be used to explore experimental research methods, and the InQuisitive adaptive learning environment will both assess your knowledge of material from the textbook and act as a study tool. Lecture material and readings will have some overlap, but will not be replications of each other; some lecture material will not be covered in the readings and vice versa. You are expected to do the assigned reading *before* the class period in which it is due. Reading the material before the corresponding lectures will help your performance – discussions of the material during lecture will be more fruitful if you have at least a general understanding of the material beforehand, helping you to ultimately comprehend and retain the material. Each of the non-lecture parts of the course (discussions, readings, demonstrations, movies, on-line labs) is designed to reinforce ideas and augment concepts presented in lectures.

Questions are encouraged in all parts of the course and students are welcome to stop by with questions and/or discussions during office hours, or by appointment.

Grading: Your final grade will be based on *4 Exams* (70% of the total grade), InQuizitive quizzes (10%), the *ZAPS Online Lab grade* (10%), the *Class Participation and Attendance grade* (5.5%), and the *Research Participation grade* (4.5%); see below for details on each.

Exams (70%): There will be 4 multiple choice examinations. Each exam will cover material from the lectures and reading assignments for the period immediately preceding the exam. No overall comprehensive final exam is given. Your lowest exam score will count for 10% while the other 3 exams will count for 20% each. **No makeup exams will be given without a valid, excused absence.** You will need to present a documented justification (e.g., doctor's note, court order, or documented athletic events for student athletes) for a missed exam in order to take a makeup exam. The documentation must be presented before (if possible) or as soon as possible following the exam. **Makeup exams will be administered during the final exam period to only those students with previously excused absences.**

InQuizitive Quizzes (10%): InQuizitive is an online interactive learning system that accompanies the textbook. After reading each chapter, you will be expected to complete the associated InQuizitive assignment, which will both gauge your knowledge of the material, and act as a learning tool. Each question will be accompanied by feedback on your answer, as well as guidance on the textbook pages where relevant information can be found. **Deadlines for completing each InQuizitive assignment will be midnight on most Mondays during the term** (starting in week 2; see the Course Schedule for details). InQuizitive is adaptive, altering the content and difficulty of each question according to your accuracy on previous questions, and the number of points that you receive for each correct answer (or penalty for incorrect answer) will be determined by the confidence that you indicate for your answer. Achieving the target score for each assignment (typically 1000 points) will allow you to earn the full credit for the assignment, and although knowing the material will allow you to reach the target by answering fewer questions (and spending less time with the assignment), every student can eventually reach the target by answering more questions (and spending more time with the assignment). **To ensure that you have the opportunity to reach the target score, allow yourself ample time to complete each assignment before the Monday midnight deadline.** To allow for an occasional absence or less-than-stellar performance, the lowest InQuizitive score will be dropped from the average – *no makeups will be provided.* (Note that in order for your InQuizitive score to be reported to Canvas, you should access each assignment through the link provided in Canvas, rather than going through the publisher's website.)

ZAPS Online Labs (10%): Part of your experience with this class will be an online component in which you perform online lab activities (ZAPS labs) associated with the material covered during lectures. These activities consist of participation in a short experiment (on the ZAPS website) and answering a few associated questions. You will do ZAPS assignments on your own time, outside of class, and the **ZAPS labs will have deadlines for completion at midnight on most Mondays in the term** (starting in week 2; see the Course Schedule for details). Your ZAPS grade will be based on participation in the experiments and correctly answering the associated questions. To allow for an occasional absence or less-than-stellar performance, the lowest ZAPS score will be dropped from the average – *no makeup labs will be provided*. (**Note that in order for your ZAPS score to be reported to Canvas, you should access each assignment through the link provided in Canvas, rather than going through the publisher's website.**)

Class Participation and Attendance (5.5%): Although this is a large class, technology has created ways for me to get some idea of the depth of your understanding of the topics discussed during lecture. Periodically, during class, I will ask questions and you will answer with your iClicker. If you are in class when the questions are asked, you will get participation points for answering. Unless otherwise announced, I will use the iClicker answers only to tell me more about overall class understanding or as a tool for class demonstrations. The number of iClicker questions per class will vary; your attendance grade will be determined by the percentage of clicker questions you complete. Each iClicker question will count for 1 point, except the final question each day, which will count up to 3 points. To allow for occasional absences, you will only be required to answer 90% of the iClicker questions presented throughout the term to get full participation/attendance points.

Research Participation (4.5%): An important part of this course is learning about research being conducted in the field of psychology. One of the best ways for you to learn about psychology research is to experience it firsthand by participating in some of the high quality psychology research being conducted at the University of Oregon. Psychology and Linguistics researchers run many experiments on varied topics (e.g., perception, cognition, memory, language, psychological coping, social interaction). To participate in experiments, you can sign up on an electronic bulletin board at: <http://uopsych.sona-systems.com> (see below for details on creating an account). Once logged in, you will find a list of studies that are available to you as well as the time and location of each study (some can be completed online). After participating in a study, you will be electronically credited for the time allotted for that study. Studies range in length from ½ hour to several hours, with one hour of participation equal to one credit. To complete the research requirement, you will need to complete 4.5 credits worth of studies. For further information, see the slides from the PowerPoint presentation about being a research participant on the course Canvas site, or email the **Human Subjects Coordinator** (Marcus Mayorga, hscoord@uoregon.edu) with questions. More details about participating in research studies will be provided in class.

For ethical reasons, the university and I can neither force you to participate in research studies, nor would we wish for you to be uncomfortable participating in studies. For this reason (or if you are younger than 18 years of age), there is an alternative assignment that you can do that involves signing up in advance for 2-hour timeslots to come to the Psychology Department to read psychology research articles and write an essay about them. There is also a 1/2 hour tutorial you can complete, so that doing two of the article reading sessions, plus the tutorial, will equal the same 4.5 hours of time as participating in studies. *For more details about completing this alternative, please contact the Graduate Teaching Fellows.*

IMPORTANT NOTES:

- If you fail to show up to TWO studies without good reason, you will not be allowed to participate in research studies as a way to complete your research requirement. You will instead be required to complete your research requirement by doing the alternative assignment.

- All students must complete the research requirement to get a grade in the course. **If you do not complete the requirement, you will receive an incomplete in the course until you do.** If you do not complete the requirement within a year, the incomplete will be changed to a failing grade in the course, as required by the university registrar.
- At least two of the 4.5 hours of the research requirement must be completed by **midnight on Friday, February 10**. The other 2.5 hours must be completed by **midnight on Friday, March 17**. *PLAN AHEAD:* To complete the research requirement, you must schedule your time slots in advance. A failure to schedule timeslots for completing the research requirement in time for both the midterm and end-of-term deadlines will result in a permanent loss of the points in the course.

SUMMARY OF GRADED ACTIVITIES - Percentage of Final Grade:

4 in-class Midterms, (20% each, except 10% for the lowest score) = 70%

InQuizitive online quizzes = 10%

ZAPS online activities = 10%

Participation and Attendance = 5.5%

Research Requirement (4.5 hours) = 4.5%

----- = 100% Total

Letter grades will be determined as follows: A (90 - 100% of total possible points), B (80 - 89%), C (70 - 79%), D (60 - 69%), F (0 - 59%). However, I reserve the right to relax (but not stiffen) these criteria by lowering the grade cutoffs, depending on the actual distribution of grades.

Electronic Access: You will need to register/login in FOUR different ways for this class. Here's a summary and quick reference:

- 1) To access the course website on **Canvas** (canvas.uoregon.edu), use your "Duck ID" (the first part of your uoregon email address, minus the "@uoregon.edu") and password. Once logged in, click on Courses at the top of the page, then select PSY201.
- 2) The first time you access the online supplements to the textbook (**ZAPS, InQuizitive, or the e-book**), you will need to register with the publisher. To do so, click on a ZAPS or InQuizitive assignment, or the e-book link, in the course Canvas site. Select the "Register, purchase, or sign up for trial access" option and button. Then, enter all required information, as well as the registration code that came with your textbook. If you have difficulties registering, please visit support.wwnorton.com for assistance. If you have previously registered with the publisher, you can skip the steps listed above and simply sign in with your email address and the appropriate password. (Note that in order for your ZAPS and InQuizitive scores to be reported to Canvas, you *must* access each assignment through the link provided in Canvas, rather than going through the publisher's website.)
- 3) To register your **iClicker**, log into the course Canvas site and click on the iClicker item in the menu on the left. The clicker ID can be found on the clicker itself (if the clicker ID number is unreadable, consult with me). *Please register before midnight January 23 to ensure that you receive credit for your work.*
- 4) To register for **SONA** for participating in research studies to satisfy the research requirement, you need a SONA ID, which you can get by following the directions on the SONA website (uopsych.sona-systems.com). If you registered on SONA in a previous term, you will *not* need to register again – your old SONA ID and password will still work. If you are not 18 years old yet, or would prefer to satisfy the research requirement by completing the alternative assignment, contact your Graduate Teaching Fellow; you will not need to register with SONA.

Classroom Etiquette: This is a very large class. Students in large classes often believe they are invisible, that they will not be noticed, and that any one's individual behavior does not count. *This is not true!* You can make a difference by listening attentively, asking questions, and contributing to discussions. Just as

actively engaged students have a positive influence on the classroom environment, activities like talking to your neighbor, texting, coming late, leaving early, personal grooming, reading the newspaper, sleeping, surfing the web, or cell phone use can be extremely disruptive. PLEASE make sure that you and your fellow students get the most from this course by abstaining from such activities. Cell phone use (for texting, calls, or web surfing) is prohibited (also, please silence your ringer before each class). Laptops can be used only for taking notes (no web surfing, checking Facebook, etc.), and they are highly discouraged even for that purpose. If I find that your activities are distracting me or your fellow students, I will call you out on it, and repeated warnings will be accompanied by dismissal from the course.

Classroom Climate: It is my goal that you feel comfortable and respected – both by me and your peers – in this class. Please let me know if I or other students make you feel uncomfortable, so that corrections can be made. If you feel that you or someone else has been the victim of bias in this class, you may consider contacting the Bias Response Team (bias.uoregon.edu/index.html).

Students Needing Accommodations for Accessibility: If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with me as soon as possible. Also, please request that a counselor at the Accessible Education Center (uoaec@uoregon.edu, tel. 541-346-1155) send a letter verifying your disability and needed accommodations. For a list of resources provided by the Accessible Education Center, please see aec.uoregon.edu.

Students for whom English is a Second Language: If you are a non-native English speaker and think you may have trouble in this course due of language difficulties, please see me as soon as possible to make any necessary special arrangements. If you think you may need to use a dictionary for in-class exams, you must ask to have your dictionary checked by me or one of the GTFs prior to the exam. Electronic dictionaries are not permitted.

Academic Honesty: All work submitted in this course must be your own. Violations (such as cheating on exams, using a friend's iClicker to respond for them in their absence, etc.) will be taken seriously, and are noted on student disciplinary records. If you are caught cheating, you will receive a 0 on the assignment; you may also receive a failing grade for the course. If you are in doubt regarding any aspect of these issues as they pertain to this course, please consult with the instructor before you complete any relevant requirements of the course. For more information, see the UO web site regarding student conduct, <http://dos.uoregon.edu/conduct>.

Course Outline: This is a working draft of the course outline. It may be revised as the quarter progresses. Dates on which particular topics are to be presented in lecture are subject to change, as are reading assignment due dates. However, I will not change the dates of exams unless absolutely necessary. The updated version of the syllabus will reside on the Canvas web site.

<u>Week&Day</u>	<u>Topics and Assignments</u>
1 1/9	Introduction + History Chapter 1
1/11	Research Methods Chapter 2
2 1/16	Deadline for InQuizitive Chapter 1; InQuizitive Chapter 2
1/16	No Class – MLK Holiday
1/18	The Nervous System Chapter 3--Neurons, Nervous System Organization and Function
3 1/23	Deadline for InQuizitive Chapter 3; ZAPS Split Brain; iClicker Registration
1/23	The Nervous System Chapter 4--Consciousness (Split Brain – pp. 142-143; Effects of Drugs – pp. 160-169)
1/25	The Nervous System Chapter 3--Brain Plasticity (pp. 109-117) + Pdf (posted on Canvas)
4 1/30	Deadline for InQuizitive Chapter 5; ZAPS Signal Detection
1/30	EXAM #1
2/1	Sensation Chapter 5--Psychophysics+Sensory Processing; Neural Coding (Pdf)
5 2/6	Deadline for ZAPS Face Perception; ZAPS Ponzo Illusion
2/6	Perception Chapter 5--Depth Perception
2/8	Perception Chapter 5--Perceptual Processes
2/10	Deadline for completion of at least 2 hours of research participation due by midnight
6 2/13	Deadline for ZAPS Stroop Effect; ZAPS Visual Search
2/13	Attention Chapter 4--(pp. 131-137)
2/15	EXAM #2
7 2/20	Deadline for InQuizitive Chapter 6; ZAPS Classical Conditioning
2/20	Learning Chapter 6
2/22	Learning Chapter 6
8 2/27	Deadline for InQuizitive Chapter 7; ZAPS Serial Position Effect; ZAPS Sensory Memory
2/27	Memory Chapter 7
3/1	EXAM #3
9 3/6	Deadline for ZAPS False Memory; ZAPS Analogical Representation
3/6	Memory Chapter 7 + Chapter 8 (pp. 309-312)
3/8	Language Chapter 8 (pp. 329-337)
10 3/13	Deadline for InQuizitive Chapter 8
3/13	Language 2 Pdfs posted on Canvas--Aphasia + Ape Language
3/15	EXAM #4
3/17	Deadline for final 2.5 hours of research participation due by midnight
11 3/21	*Makeup EXAMS 2:45pm Tuesday of Finals Week in 156 Straub

***Note:** No final exam will be given. The Final Exam period (Tuesday, 3/21, 12:45-2:45 pm) will be used for administering *pre-approved* makeup exams only.