

----- Updated 9/23/2018 -----

Learning and Memory (PSY 433/533)

Fall 2018 -- M/W 10:00am–11:20am -- LIB 101 -- CRN 15336 -- 4 credits

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Readings

There is **no required textbook** for this course! The assigned readings will be articles that are posted on Canvas. If you would like to have a textbook for reference, the following textbook will cover most of the same topics that we discuss in class.

OPTIONAL TEXT: Gluck, M. A., Mercardo, E., & Myers, C. E. (2013). Learning and Memory: From Brain to Behavior (3rd ed). NY: Worth Publishers.

Course Description

This course will cover a range of research topics related to learning and memory. You will develop a clear understanding about different memory systems, the factors that promote successful remembering and those that contribute to forgetting, how distinct brain regions contribute to memory, and how memories are influenced by factors such as emotion and sleep. You will also learn about various methodological approaches that are used in memory research: from behavioral methods to neuroimaging to studies of neuropsychological patients. In addition to learning about theoretical topics and principles, you will also develop an understanding and appreciation for how memory operates in the 'real world.'

Course Objectives

By the end of this course, you should be able to identify and describe different forms of memory, you should be familiar with the diverse methodologies that are

used to study memory, and you should have a working understanding of prominent models, theories, and principles of memory.

Expectations

It is expected that you will regularly come to class and that you will come to class prepared. This means that you should *keep up with the assigned readings* and show up to class prepared to think about and discuss what you have read.

The course is structured in a way that is intended to help you learn the materials, but you will need to put effort into the class in order to learn and succeed. If you encounter difficulties along the way, PLEASE contact the instructor or teaching assistant as soon as possible. It is much easier to help you succeed when you make us aware of any problems in a timely manner.

Workload

This is a 4-credit course. According to University principles governing credit and contact hours, each credit equals 30 hours of work for the term. Four credits are therefore equivalent to 120 total hours for the term, or 12 hours per week for 10 weeks. You will spend approximately 3 hours in class each week. That means that you should be spending roughly *9 hours per week reading, studying, and completing assignments outside of class*. Your performance in this class will be much higher if you plan accordingly.

Course Components and Requirements

Attendance. Regular attendance is an essential component of this course. Exams will be directly based on lecture materials. Moreover, the discussions, questions, and anecdotes that are part of the classroom experience will greatly enrich and facilitate your learning. Simply put, you will perform better in this class if you attend lectures.

Readings. You will be assigned articles to read *before* each lecture. That is, if the schedule lists a particular reading for a particular class date, you should do that reading before the class on that date. Completing readings before lectures will make it easier for you to follow and ultimately remember the material in that lecture. It will also facilitate in-class discussion.

Critique Paper.

PSY 433: You will be required to write a paper of 4-5 pages in length (1 inch margins, doubled spaced, 11-12 pt font) that critically reviews, evaluates, and discusses an empirical journal article. The instructor will provide a set of 4-6

papers from which you will select one paper to review. Your paper should give a general overview of the findings and conclusions as well as a commentary regarding the significance or limitations of the study. You should include some discussion of what other questions you would be interested in addressing in follow-up studies. A detailed overview of this assignment will be provided later.

PSY 533: Same as for 433, except that the paper should be 5-6 pages in length and should additionally include a formal description of a follow-up study you would be interested in conducting.

Exams. There will be three exams in this course: two midterms and a final exam. The final exam will be cumulative, but biased toward material covered in the last third of the term. The exams will include multiple choice and short answer questions.

Grading

Your grade in this course will be determined as follows:

Midterm 1: 25%

Midterm 2: 25%

Final Exam: 30%

Paper: 20%

TOTAL: 100%

The grading scale will be: 90-100=A, 80-89=B, 70-79=C, 60-69=D, 59 or lower=F. However, I reserve the right to adjust the grades *up* depending on the distribution of scores (i.e., to curve). Grades will never be adjusted downward. Those taking the class Pass/Fail must obtain a "C" to pass. Whether grades are rounded up (e.g., whether an 89.5% counts as 90%) will depend on the distribution of scores. If you want to guarantee a score in the A range, you should plan to achieve a score of 90.00% or higher! Likewise for a B or C grade.

Please be warned in advance that if you fall just below a grade cutoff, I *will not bump you up*. This policy is in place in order to maintain fairness for all students. Appealing to me for a 'favor' is not going to change this policy. The best way to avoid just missing out on a desired grade is to put in the necessary work so that your grade is comfortably above the cutoff.

Academic integrity

I assume that all students are familiar with the regulations stipulated in the UO Student Conduct Code (<http://conduct.uoregon.edu>). Violations of the Student Conduct Code are taken extremely seriously. Specific violations include (but are not limited to):

- Using or providing prohibited assistance during exams. All exams in this course are **closed-book**. You are not permitted to use any materials during the exams. Books, notes, computers, cell phones, headphones, etc., should be closed and put away.
- Plagiarism. This includes improper use of words and ideas. All work submitted in this course must be your own and must be original for this course. If you have questions regarding any aspect of these issues, please talk with the instructor before you complete any relevant requirements for this course. For more information, see the UO web site regarding academic honesty at: <http://studentlife.uoregon.edu/StudentConductandCommunityStandards/AcademicMisconduct/tabid/70/Default.aspx>

Courtesy

Out of courtesy for other students and out of respect for the class, I request the following: (1) Please turn off your cell phone during class. This also includes disabling phone alerts (beeps, buzzes, etc.). (2) Note taking by computer is ok, but please make an effort to minimize disruption/noise, which includes refraining from computer use during class that is unrelated to note taking. (3) Please do not chat with others during class. (4) Please be on time. I will start class at the listed time (I do not add 5 minutes to the start time).

DIVERSITY

It is the policy of the University of Oregon, and a value of mine, to support diversity. In this course, this will involve supporting diversity of opinions, ideas, and backgrounds. It is imperative to me that all students feel welcome in this course. All students are subject to the regulations stipulated in the UO Student Conduct Code:

<http://conduct.uoregon.edu>

STUDENTS WITH DOCUMENTED DISABILITIES

If you have a documented disability, and you anticipate needing accommodations in this course, please meet with the instructor within the first two weeks of the term. The documentation of your disability must come in writing from the Accessible Education Center in the Office of Academic Advising and Student Services. For more information on Accessible Education Center, please see <http://aec.uoregon.edu>. Also, please request that Hillary Gerdes (hgerdes@oregon.uoregon.edu, tel. 346-3211, TTY 346-1083), Senior Director of the Accessible Education Center, send a letter to the instructor verifying your disability.

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Course Schedule

**Topics may be rescheduled, but exam and homework due dates will only change in the event of extreme circumstances (e.g., weather-related emergencies).*

Week	Date	Topic	Reading	Assignments
1	M 9/24	Overview of Memory		
	W 9/26	Experimental Methods	Squire (2004)	
2	M 10/1	Non-associative learning	Schacter & Buckner (1998)	
	W 10/3	Conditioning	Greenwald (2014)	
3	M 10/8	Working Memory 1	Baddeley (2003)	
	W 10/10	Working Memory 2	Luck and Vogel (2013)	
4	M 10/15	Midterm 1		
	W 10/17	Episodic Memory: Encoding 1	Tulving (1972)	
5	M 10/22	Episodic Memory: Encoding 2	Paller & Wagner (2002)	
	W 10/24	Retrieval	Rugg & Yonelinas (2003), Schacter (2007)	
6	M 10/29	Cognitive Control	Levy & Anderson (2002)	
	W 10/31	Forgetting	Levy et al. (2010)	
7	M 11/5	Midterm 2		
	W 11/7	False Memories	Schacter (1998), Schacter (1999)	
8	M 11/12	Semantic Memory	Yee et al. (2013)	
	W 11/14	Skill Learning	Dayan and Cohen (2011)	
9	M 11/19	Emotion and Memory	Phelps (2004)	
	W 11/21	Social Learning	Yin (2018)	
10	M 11/26	Development & Aging	Nyberg et al. (2012)	
	W 11/28	Superior Memory	Johnson (2017)	Paper due
	M 12/3 @ 10:15am	FINAL EXAM!	All of the above!	Cumulative Final Exam