



Green Hall, GR 4.428, Wednesdays, 7:00-9:45pm

Cognitive Psychology, PSY/CGS 3361, SPRING 2019

"The test of learning psychology is whether your understanding of situations you encounter has changed, not whether you have learned a new fact." --Daniel Kahneman, 2011

Instructor: Dana Roark, Ph.D.
danar@utdallas.edu
Drop-in Office Hours (*no appointment needed*): Wednesdays, 5:30-6:30, GR 4.304
(for other times, send email for appt.)

Graduate Teaching Assistant: Kari Stouffer
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Undergraduate Teaching Interns: Zeba Shaik zeba.shaik@utdallas.edu
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Prerequisite: *Introduction to Psychology, PSY 2301; or Cognitive Science, CGS 2301*

Course Description:

This goal of this course is to provide students with an overview of the wide-ranging field of cognitive psychology, with an emphasis on the role that cognitive processes play in our everyday lives. Broadly speaking, this includes an introduction to the scientific study of the mind and mental processes, including perception, attention, language, working memory, long-term memory, semantic memory, imagery, problem-solving, and decision making. The focus is on the current research and theory in this rapidly evolving field.

Student Learning Objectives:

- Develop a knowledge base in psychology: Describe, explain, and analyze major theoretical perspectives and content areas in psychology (e.g., memory, attention, language, decision making, problem-solving)
- Demonstrate scientific inquiry and critical thinking (includes 2.1 Identify and explain different research methods used by psychologists, 2.2 Employ critical thinking to evaluate bodies of scientific literature, popular media, and empirical reports in psychology in order to construct/evaluate an argument).

Required Textbook and Materials:

- **Cognition**, Matlin, M., & Farmer, T.A., 2015 (9th ed.) Wiley ISBN: 978-1-118-98328-7
 - Available new & used at UTD Bookstore, Off-Campus Books, & Amazon
 - eTextbook & rentals are also available (e.g., *Chegg.com*)
- **Additional readings:** Scientific articles, as assigned (see class calendar).
(PDF's of the articles will be available on eLearning.)

Grading Policy

Final course grades will be based on **3 take-home assignments and 3 exams**.

- **Take-home assignments:** These short assignments (~1.5 p) must be turned-in, in person, during class; no electronic submissions will be accepted. DETAILS about the topic/guidelines for these assignments will be provided 1-2 weeks before each assignment is due. See class calendar on p. 4 for due dates.
- **Exams:** Details provided in box below.

Final grades are calculated using a point system.

Students may earn up to 375 points during the semester:

Exam 1: 100 pts. Assignment 1: 25 pts.

Exam 2: 100 pts. Assignment 2: 25 pts.

Exam 3: 100 pts. Assignment 3: 25 pts.

Final course grades are calculated using a set of a priori criteria:

A range: 336—375 pts. B range: 296—335 pts. C range: 258—295 pts. D range: 220—257 pts.

Exams

The exams will include matching, multiple choice, & true-false questions based on information from:

- the class lectures
- the textbook
- the assigned journal articles and, occasionally, assigned videos

IMPORTANT: All exams will take place in the UTD Testing Center, located in the Synergy Park North 2 (SPN2) building (3020 Waterview Parkway, SPN2 First Floor, Room 11.175, Richardson, TX 75080—**see map posted on eLearning**).

There will be no class meeting on weeks when exams are scheduled (see class schedule on p. 4).

- Students are required to sign-up online—in advance—for a timeslot to take the exam at the testing center. You cannot just show-up on the exam dates; you must reserve a timeslot **at least 72 hours before the exam date**.
 - You may register for a seat for all 3 exams now; students are encouraged to register during the first 2 weeks of the semester, to ensure a timeslot of their choice.
 - (You may change your exam times later, if timeslots are still available.)
- To sign up, go to: <https://ets.utdallas.edu/testing-center/>. While there, be sure to read the “Student Guidelines” for the testing center.
- NOTE: **Students are required to show a valid, physical UTD student ID** to enter the testing center. (*NO OTHER FORMS OF IDENTIFICATION ARE ACCEPTED.)
- Please ask or email one of the course TAs about any questions you have about the testing center.

DO NOT MISS EXAMS!

Make-up exams will be given only when:

- (a) you were seriously ill and have documentation from a physician, or
- (b) you have a police report (e.g., auto accident) indicating you were detained the day and time of the exam, or
- (c) you have made arrangements with Dr. Roark prior to the exam, due to (very) special circumstances.

If you are a no-show for an exam, and/or do not meet one of the above conditions for a make-up exam, you will receive an exam grade of F.

- It is the student's responsibility to make sure that an exam is made up within one week. Make-up exams may be more difficult to compensate for the additional study time.

Course Website on eLearning: <https://elearning.utdallas.edu>

Several course-related items are posted online for PSY/CGS 3361-501 students.

Each week, students should check the course webpage for new documents & other course materials.

eLearning postings will include:

- | | |
|---------------------------------------------------------------------------------|--------------------------------|
| --guidelines for the take-home assignments | --chapter review sheets |
| --lecture notes in both PPT and PDF format
(may be abbreviated) | --practice questions |
| --pdfs of assigned articles
(also, <u>reading guides</u> for these articles) | --course-related announcements |
| | -- videos |

Attendance

- Attendance is assumed, as it is much easier for students to do well in the course when they attend class.
- For administrative purposes, the TAs will take attendance sometime during each class.
- Attendance is not a part of your final grade *per se*; you do not receive "credit" or "extra points" simply for attending class. However, your exam grades, in part, reflect your presence and attention during class.

**The last day to drop this course without a "W" is Wednesday, January 30th, 2019.

Research Exposure Credit Requirement (REC)

One requirement of all students enrolled in this class is completion of two research exposure credits. This requirement provides students practical and direct experiences with research and is an important means to understanding behavioral research.

Details about this requirement appear on the separate Research Exposure Credit Requirement handout distributed on the first day of class. A link to "Research Exposure Credit (REC) Requirement" is also posted on the BBS Information Center in eLearning (link on the left side).

Failure to complete the research exposure requirement will result in lowering your total grade in this class. For each Research Exposure Credit you fail to complete, your course grade will be reduced by 1/3 letter grade. For example, if you only complete one of the two required credits and your grade for all other course requirements is an A+, then your grade would be lowered from an A+ to an A. If you do not complete both credits, your grade would be lowered from an A+ to A-.

NOTE: This requirement is NOT administered by Dr. Roark; it is administered by the BBS Department. Should you have questions/concerns about this requirement, please email one the TAs for this course (see contact info. on p. 1). Or, you may email Lindsey Boeshans, Lindsey.Boeshans@utdallas.edu

******A handout with additional details about this requirement—including deadlines for completion—
is posted on the eLearning page for this course******

****The descriptions and timelines below are subject to change at the discretion of the professor.****

Class Calendar for PSY/CGS 3361.501–Spring 2019

Date	Lectures/Due Dates (topic)	Reading (textbook chapters & articles)
Jan. 16	<u>Introduction to Cognitive Psychology</u> <i>Overview of course; Lecture: Foundations of cognitive psychology</i>	Ch. 1
Jan. 23	<u>Visual Recognition</u> <i>object recognition; change blindness; face perception/recognition</i>	Ch. 2 <u>Article:</u> Simons & Levin, 1998
Jan. 30	<u>Attention</u> <i>face recognition; speech perception + visual search & attentional networks</i>	Ch. 2 (cont.); Ch. 3
Feb. 6	<u>Working Memory</u> <i>classic research on working memory; Baddeley’s model</i> Assignment 1 Due	Ch. 4
Feb. 13	Exam 1 at Testing Center 2/14–2/15 (must register online in advance for a test time)	(no class meeting this week)
Feb. 20	<u>Long Term Memory</u> <i>memory encoding & retrieval; role of expertise; implicit memory</i>	Ch. 5
Feb. 27	<u>Long Term Memory; Memory Strategies</u> <i>flashbulb memories; false memory; mnemonics</i>	Ch. 5 (cont.) & Ch. 6 <u>Article:</u> Loftus, 1997
Mar. 6	<u>Metacognition; Mental Imagery</u> <i>metamemory; mental rotation, “imagery debate”</i>	Ch. 6 (cont.) & Ch. 7
Mar. 13	<u>Cognitive Maps</u> <i>spatial cognition; mental maps</i> Assignment 2 Due	Ch. 7 (cont.)
Mar. 20	----- NO CLASS–SPRING BREAK	
Mar. 27	Exam 2 at Testing Center 3/28–3/29 (must register online in advance for a test time)	(no class meeting this week)
April 3	<u>General Knowledge</u> <i>prototypes/exemplars; schemas & scripts</i>	Ch. 8
April 10	<u>Decision-Making</u> <i>deductive reasoning & heuristics</i>	Ch. 12
April 17	<u>Decision-Making</u> (more heuristics)	Ch. 12 (cont.)
April 24	<u>Problem-Solving</u> <i>methods for solving problems</i>	Ch. 11
May 1 (last class)	<u>Problem-Solving</u> <i>Insight, creativity, & motivation</i>	Ch. 11 (cont.) <u>Article:</u> Barrett, 2013
May 8-9	Exam 3 at Testing Center 5/8–5/9 (must register online in advance for a test time)	



UT Dallas Policies and Procedures

Sharing Confidential Information

Students considering sharing personal information in email, in person, or within assignments or exams should be aware that faculty members and teaching/research assistants are required by UT Dallas policy to report information about sexual misconduct to the UT Dallas Title IX Coordinator. Per university policy, faculty have been informed that they must identify the student to the UT Dallas Title IX Coordinator. Students who wish to have confidential discussions of incidents related to sexual harassment or sexual misconduct should contact the Student Counseling Center (972-883-2527 or after hours 972-UTD-TALK or 972-883-8255), the Women's Center (972-883-8255), a health care provider in the Student Health Center (972-883-2747), the clergyperson (or other legally recognized religious advisor) of their choice, or an off-campus resource (i.e., rape crisis center, doctor, psychologist). Students who are sexually assaulted, harassed, or victims of sexual misconduct, domestic violence, or stalking, are encouraged to directly report these incidents to the UT Dallas Police Department at 972-883-2222 or to the Title IX Coordinator at 972-883-2218. Additional information and resources may be found at <http://www.utdallas.edu/oiec/title-ix/resources>.

Campus Carry

The University's concealed handgun policy is posted on the campus carry website: <https://www.utdallas.edu/campuscarry/>

Technical Support

If you experience any issues with your UT Dallas account, contact the UT Dallas Office of Information Technology Help Desk: assist@utdallas.edu or call 972-883-2911. UT Dallas provides eLearning technical support 24 hours day/7 days a week. The services include a toll-free telephone number for immediate assistance (1-866-588-3192),

email request service, and an online chat service. Please use this link to access the UTD eLearning Helpdesk:

<http://www.utdallas.edu/elearning/eLearningHelpdesk.html>.

Student Conduct and Discipline

The University of Texas System (Regents' Rule 50101) and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UT Dallas online catalogs (<http://catalog.utdallas.edu>).

--The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the Student Code of Conduct, UTDSP5003 (<http://policy.utdallas.edu/utdsp5003>). Copies of these rules and regulations are available to students in the Office of Community Standards and Conduct, where staff members are available to assist students in interpreting the rules and regulations (SSB 4.400, 972-883-6391) and online at <https://www.utdallas.edu/conduct/>.

A student at the University neither loses their rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating its standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the

work done by the student for that degree, it is imperative that a student demonstrates a high standard of individual honor in his or her scholastic work.

Academic Dishonesty:

Academic dishonesty can occur in relation to any type of work submitted for academic credit or as a requirement for a class. It can include individual work or a group project. Academic dishonesty includes plagiarism, cheating, fabrication, and collaboration/collusion. In order to avoid academic dishonesty, it is important for students to fully understand the expectations of their professors. This is best accomplished through asking clarifying questions if an individual does not completely understand the requirements of an assignment. Additional information related to academic dishonesty and tips on how to avoid dishonesty may be found here:

<https://www.utdallas.edu/conduct/dishonesty>

Copyright Notice

It is the policy of the University of Texas at Dallas to adhere to the requirements of the United States Copyright Law of 1976, as amended, (*Title 17, United States Code*), including ensuring that the restrictions that apply to the reproduction of software are adhered to and that the bounds of copying permissible under the fair use doctrine are not exceeded. Copying, displaying, reproducing, or distributing copyrighted material may infringe upon the copyright owner's rights. Unauthorized distribution of copyrighted material, including unauthorized peer-to-peer file sharing, may subject students to appropriate disciplinary action as well as civil and criminal penalties. Usage of such material is only appropriate when that usage constitutes "fair use" under the Copyright Act. For more information about the fair use exemption, see <http://copyright.lib.utexas.edu/copypol2.html> As a UT Dallas student, you are required to follow UT Dallas' copyright policy

(UTDPP1043 at <http://policy.utdallas.edu/utdpp1043>) and the UT System's policy, UTS107 at <http://www.utsystem.edu/board-of-regents/policy-library/policies/uts107-use-copyrighted-materials>.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. All official student email correspondence will be sent only to a student's UT Dallas email address and UT Dallas will only consider email requests originating from an official UT Dallas student email account. This allows the University to maintain a high degree of confidence in the identity of each individual's corresponding via email and the security of the transmitted information. The University of Texas at Dallas furnishes each student with a free email account that is to be used in all communication with university personnel. The Office of Information Technology provides a method for students to have their UT Dallas mail forwarded to other email accounts. To activate a student UT Dallas computer account and forward email to another account, go to <http://netid.utdallas.edu>.

Withdrawal from Class

The administration at UT Dallas has established deadlines for withdrawal from any course. See dates and times in the Comet Calendar here:

<http://www.utdallas.edu/calendar>) and here: <http://www.utdallas.edu/academiccalendar>.

It is the student's responsibility to handle withdrawal requirements from any class. In other words, a professor or other instructor cannot drop or withdraw any student unless there is an administrative drop such as the following:

- Have not met the prerequisites for a

- specific course
- Have not satisfied the academic probationary requirements resulting in suspension
- Office of Community Standards and Conduct request
- Have not made appropriate tuition and fee payments
- Enrollment is in violation of academic policy
- Was not admitted for the term in which they registered.

It is the student's responsibility to complete and submit the appropriate forms to the Registrar's Office and ensure that he or she will not receive a final grade of "F" in a course if he or she chooses not to attend the class after being enrolled.

Student Grievance Procedures

Procedures for student grievances are found in university policy UTDSP5005 (<http://policy.utdallas.edu/utdsp5005>). In attempting to resolve any student grievance regarding disputes over grades, application of degree plan, graduation/degree program requirements, and thesis/and dissertation committee, adviser actions and/or decisions, evaluations, and/or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originated.

Incomplete Grade Policy

As per university policy, incomplete grades may be given, at the discretion of the instructor of record for a course, when a student has completed at least 70% of the required course material but cannot complete all requirements by the end of the semester. An incomplete course grade (grade of 'I') must be completed within the time period specified by the instructor, not to exceed eight (8) weeks from the first day of the subsequent long semester. Upon completion of the required work, the symbol 'I' may be

converted into a letter grade (A through F). If the grade of Incomplete is not removed by the end of the specified period, it will automatically be changed to F.

AccessAbility Services

It is the policy and practice of The University of Texas at Dallas to make reasonable accommodations for students with properly documented disabilities. However, written notification from the Office of Student AccessAbility (OSA) is required. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with your professor and allow one week advance notice. Students who have questions about receiving accommodations, or those who have, or think they may have, a disability (mobility, sensory, health, psychological, learning, etc.) are invited to contact OSA for a confidential discussion. OSA is located in the Student Services Building, SSB 3.200. They can be reached at 972-883-2098 or studentaccess@utdallas.edu.

Religious Holy Days

The University of Texas at Dallas will excuse a student from class or other required activities, including examinations and travel time for the observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, of the *Texas Tax Code*.

Students are encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment.

Excused students will be allowed to take missed exams or complete assignments within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the President of UT Dallas or from the President's designee.

******Resources to Help You Succeed******

--The Office of Student Success operates the Student Success Center (<http://www.utdallas.edu/studentsuccess>), which offers assistance to students in the areas of writing, mathematics, communication, multiple science fields, reading, study skills, and other academic disciplines. These services are available through individual and small group appts., workshops, short courses, and a variety of online and instructional technologies.

All students enrolled at UT Dallas are eligible for these services.

- The **Math Lab** gives short-term and semester long support for a variety of introductory and advanced mathematics courses. Students may drop in to visit with a math tutor on a regular basis. Comet card is required.
- The **Writing Center** offers a collaborative learning environment for one-to-one and small group assistance with general and advanced writing assignments and overall writing skills. Scheduling an appt .is strongly recommended, but walk in appointments are possible if a tutor is available.
- The **Peer Tutoring** program offers free tutoring assistance in multiple locations for many of the historically challenging undergraduate subjects at UT Dallas. Tutoring sessions, offered every weekday on a drop-in basis, are one-on-one or in a small group format. The sessions are designed to

meet students' individual questions and needs related to course/subject concepts. All peer tutors are current UT Dallas students who made an A- or better in the course and have a strong faculty/staff recommendation. Students should check the Student Success Center website for subject offerings and session times.

- The **Peer-Led Team Learning (PLTL)** program provides an active, engaged learning experience for students who meet in small groups once a week with a Peer Leader who helps guide them through a potentially difficult gateway course. Students that attend sessions regularly typically earn a half to a whole letter grade higher than students that do not participate in the PLTL program.
- **Supplemental Instruction (SI)** provides free, peer-facilitated weekly study sessions for students taking historically difficult courses. SI sessions encourage active, collaborative learning based on critical thinking and transferable study skills. SI leaders attend lectures, take notes, and read assigned material just like the enrolled students. Students should check the SSC website for subject and session times.
- **The Communication Lab (CommLab)** offers one-on-one and group consultations where you will gain practical feedback for improving oral and group presentations.
- **Success Coaches** are available for individual student appointments to discuss study skills, time management, note taking, test taking and preparation, and other success strategies.

To contact the Student Success Center:

Phone: 972-883-6707

Email: ssc@utdallas.edu.