

BRAIN AND BEHAVIOR
BIOL/PSYC3322-002, spring 2015

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Time and Place of Class Meeting: TR12:30-1:50PM, LS119

Course Description:

This course will provide a comprehensive review of physiological processes that underlie animal and human behaviors.

Course Learning Objectives and Goals:

By the end of the course, students are expected to learn how the brain works to control human's behaviors and what underlying mechanisms are involved. Topics will include: anatomical structure, molecular basis, sensory and motor systems, neurotransmitters, control of hunger, thirst, temperature, emotional disorders and schizophrenia, etc.

Course Prerequisites:

BIOL1441, BIOL1442 or PSYC1315

Required Textbook and Materials:

Biological Psychology (The 11th edition by James W. Kalat)

Please note: you are responsible for taking your own risk to make a decision on purchasing older editions, since the answer keys to the multiple questions are based on the 11th edition.

Specific Course Requirements:

This is an intensive course. Students are expected to know much detailed information. Please be sure to read the textbook and lecture slides both before and after attending lectures.

Attendance Policy:

Class attendance is highly recommended even though it is *not* mandatory. Attending lecture is extremely beneficial to your performance in this advanced course.

Examinations:

There will be *three* equally weighted close book examinations, including the final exam. The final exam will NOT be comprehensive. You are required to take all *three* exams. The format for exams will be multiple-choice.

Please note: You are expected to be in class on time during examination dates. Exams will *not* be given to any late students after the first exam is turned in. If you come after this point to take the exam, it will be considered a “missed” exam. If you miss an exam, no grade will be given.

Grade Calculation:

The three exams will contribute *one third each* to the total of 100% of the final grade. The scores from each exam will be averaged and a letter grade will be assigned where $A \geq 86\%$, $B \geq 76\%$, $C \geq 66\%$, $D \geq 56\%$, $F \leq 55\%$.

Please note: There will be **no** extra credit work to make up the grade. Please do not ask. UTA policy will not allow distribution of grade over the phone call or email.

Makeup Work:

There is no provision for taking a makeup exam in this course unless documentation for a University-approved excuse (see <http://www.uta.edu/catalog/general/academicreg>) is received within five days of the exam date, except with conditions that will prevent you from access conscious means of communication. All makeup tests will be offered in the 16th Week (the week right before the Final exam week; see **TENTATIVE LECTURE AND TOPIC SCHEDULE**). Makeup test is **ONLY** for those students who miss the *first two* tests.

Drop Policy:

Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/aao/fao/>).

Electronic Communication:

The University of Texas at Arlington has adopted the University “MavMail” and/or “Blackboard” addresses as the official means of communication with students. MavMail and/or “Blackboard” are used to remind students of important deadlines, advertise events and activities, download course materials, and permit the University to conduct official transactions exclusively by electronic means. For example, important information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system.

All students are assigned a MavMail account. Information about activating and using MavMail is available at <http://www.uta.edu/oit/email/>. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington.

Please note: you are responsible for checking their MavMail and Blackboard regularly, so that you will be aware of course update and announcements.

Student Feedback Survey:

At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory shall be directed to complete a Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week:

A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Americans with Disabilities Act:

The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Student Support Services:

UT Arlington provides a variety of resources and programs designed to help students

develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to resources for any reason, students may contact the Maverick Resource Hotline at 817-272-6107, sending a message to resources@uta.edu, or visiting www.uta.edu/resources.

Academic Integrity:

At UT Arlington academic dishonesty is completely unacceptable and will not be tolerated in any form, including (but not limited to) “cheating, plagiarism, collusion, the submission for credit for any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts” (UT System Regents’ Rule 50101, §2.2). Suspected violations of academic integrity standards will be referred to the Office of Student conduct. Violators will be disciplined in accordance with University policy, which may result in the student’s suspension or expulsion from the University.

University of Texas at Arlington Honor Code

I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Emergency Exit Procedures:

Should we experience an emergency event that requires us to vacate the building, students should exit the classroom and move toward the nearest exit (next to the classroom). Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

Title IX: The University of Texas at Arlington is committed to upholding U.S. Federal Law “Title IX” such that no member of the UT Arlington community shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. For more information, visit www.uta.edu/titleIX.

TENTATIVE LECTURE AND TOPIC SCHEDULE

Week	Date (Every Tuesday and Thursday)	Lecture Topics	Reading Assignments
1	Jan 20, 22	The major issues (<i>not be included in exam</i>) Nerve cells and nerve impulses	Chapter 1 Chapter 2
2	Jan 27, 29	Synapses	Chapter 3
3	Feb 3, 5	Anatomy of the nervous system	Chapter 4
4	Feb 10, 12	Development and plasticity of the brain	Chapter 5
5	Feb 17 Feb 19	Exam 1 (Feb 17, Tuesday, 12:30-1:50PM at LS119, chapters 2-5) Vision	 Chapter 6
6	Feb 24, 26	Vision The other sensory systems	Chapter 6 Chapter 7
7	Mar 3, 5	The other sensory systems Movement	Chapter 7 Chapter 8
8	Mar 9-14	Spring break	No class
9	Mar 17, 19	Movement Wakefulness and sleep	Chapter 8 Chapter 9
10	Mar 24, 26	Wakefulness and sleep Internal regulation	Chapter 9 Chapter 10
11	Mar 31 April 2	Exam 2 (Mar 31, Tuesday, 12:30-1:50PM at LS119, chapters 6-9) Internal regulation	 Chapter 10
12	April 7, 9	Emotional behaviors	Chapter 12
13	April 14, 16	The biology of learning and memory	Chapter 13
14	April 21, 23	Cognitive Functions	Chapter 14
15	April 28, 30	Mood disorders and schizophrenia	Chapter 15
16	May 4-8	Week of review Makeup exams (May 5, Tuesday at LS119)	
17	May 9-15	Exam 3 (chapters 10,12-15), please refer to UTA exam schedule	