

**If the brain were so simple that we could
understand it,
we would be so simple that we couldn't."
Lyle Watson**

**INTRODUCTION TO PHYSIOLOGICAL PSYCHOLOGY
PSYCHOLOGY 202A**

TIME: 11:30 AM, Daily, (5 credits)

INSTRUCTOR: VIRGINIA BRIDWELL

OFFICE: D110

OFFICE HOUR: 12:30 – 1:20

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FALL QUARTER 2009

REQUIRED TEXT: James W. Kalat; Biological Psychology, tenth edition, Thomson/Wadsworth, Publisher.

COURSE DESCRIPTION:

Psychology is the scientific study of behavior, thought and emotion. This course will introduce terminology, methodology, concepts and theories of the biological aspects of behavior. This course will examine the structures and functions of the brain, sensory systems, and endocrine system on a molecular, cellular and organ level as they are integrated to process information and perform behaviors.

COURSE OBJECTIVES:

Upon completion of this course, the successful student will:

1. Identify the components of the nervous system, endocrine system, and immune system and describe their functions.
2. Describe the chemical influences on behavior at the cellular level, the neural level and at the level of the organism.
3. Describe applications of the scientific method to the study of behavior and mental processes.
4. Distinguish between the various methods and technologies employed in studying the brain.
5. Demonstrate an appropriate use of terms and theories related to physiological psychology.
6. Identify the prominent theorists in the field of physiological psychology and discuss their contributions to the field.
7. Discuss the dynamic relationship between evolution, genetics and the environment as it influences physiology and behavior.
8. Be able to critically analyze claims that are made about behavior in a number of forums, from media to academia.

GENERAL EDUCATION OUTCOMES:

1. Critical Thinking, Creativity and Problem Solving. (2)
2. The Nature of Science (3)
3. Science and the Natural World (3)
4. Technology and Society (2)

GRADING AND EXAMS:

In conformity with BCC's grading policy the grades will be assigned as follows:

A	100 - 95	4.0
A-	94 - 90	3.7
B+	89 - 86	3.3
B	85 - 83	3.0
B-	82 - 80	2.7
C+	79 - 75	2.3
C	74 - 70	2.0
C-	69 - 60	1.7
D+	59 - 55	1.3
D	54 - 50	1.0
F	49 - BELOW	0.0

Your final grade will be based on a potential total of 600 points. They are broken down as follows:

EXAMS: (400 points)

There will be five exams, each worth 100 points. Your final grade will be calculated on the basis of your best four scores. Each exam will cover information from the text, lectures and class discussions. The test format will contain multiple choice and essay questions. You may expect your exams to be returned to you within three days (depending on the number of essay questions in the exam). You will need to bring a **scantron sheet and a number two pencil** to each exam. Paper for the essay questions will be provided. If after the final exam you wish to receive your results prior to receiving your transcript, you may bring a self-addressed, stamped envelope to the final exam and your exam will be mailed to you.

MAKE - UP EXAM POLICY:

There will be no make - up exams. If you are unable to attend class on the day of an exam, you may arrange to take it before the scheduled date. Otherwise, since it is the policy to drop the lowest exam score, your missed exam will count as your lowest score.

DISABLED STUDENTS:

If you require accommodation based on a documented disability, have emergency medical information to share, or need special arrangements in case of emergency evacuation; please make an appointment with me as soon as possible.

RECIPROCAL PEER TUTORING ASSIGNMENT: (100 points)

Objective: This is a challenging course that requires systematic and rigorous study to master the concepts and theories presented. Research and anecdotal experience from tutors has shown that tutors achieve relatively greater understanding of academic information than their students. (Fantuzzo and Riggio, 1990)

Assignment description: To ensure your successful mastery of the course material, you will be randomly assigned to a study partner with whom you will be both student and tutor for the duration of the quarter. The course is divided into five units. Each unit culminates with an exam. You will be required to meet with your study partner for a minimum of two one hour sessions per unit. In preparation for these meetings, each student must create the following:

1. An **original** practice exam to be administered to the partner during the meeting.
2. A set of answer cards for each test item with a brief explanation of why the answer was the correct one.

3. Two **original** essay-type questions covering unit material with an outline of the answers.
4. Students will be prepared to discuss the questions and compare answers with their partner.
5. Two taped sessions of the discussions will be turned in by each study partner group over the course of the quarter.

Study group materials will be turned in on the day of the exam. **Late material will not be accepted. No exceptions. Study materials that plagiarize the study guide materials that accompany your text will not be accepted and will be treated with the consequences stipulated by the college and social sciences policies regarding plagiarism.** (See attached policies handout)

(Adapted from Reciprocal Peer Tutoring by Ron Riggio, Ph.D. (1990) Presented to the Terman Teaching Conference of Western Psychological Association Convention, 2006)

CLASS POLICIES:

ATTENDANCE:

As adult students, you are expected to be able to manage your own time and priorities. This course is designed with the understanding that attendance is essential for success in the class. This is college. You are not expected to call and explain your absence. **However**, you **are** responsible to obtain notes from other students to gain information regarding announcements or lectures that you have missed. Studies have shown that the students who attend class regularly do achieve better grades and comprehension. They are also the students who enrich the class with their questions, participation, and discussions. Consequently, I will reward attendance with extra credit points by taking attendance randomly throughout the quarter (usually on days when attendance is low). These points will be logged in my grade book and assessed when your grade appears to be on the borderline between grades and I need to justify rounding your grade up to the higher grade.

PUNCTUALITY:

Please be on time for class. Late arrivals result in loss of important information and distract students' opportunity to hear announcements. If circumstances prevent you from arriving on time, please take a seat closest to the door to reduce the number of students that you distract.

Once class has commenced, do not leave before the end of the hour. Students sometimes encounter circumstances in which they have to leave class before the end of the hour. **Make every effort to avoid leaving class before the end of the hour.** Once again, this creates a distraction for others that can be very disturbing when it results in loss of information or confusion. Arrange for such occurrences by speaking to me about it before class and **plan to sit next to the door and do not reenter the room once you have left.**

CLASS PARTICIPATION:

You are encouraged to participate in discussions of the theories and concepts presented in class. This has the effect of expanding your comprehension of the material and enriching the learning experience for yourself and your fellow students. Many of the theories may seem counter-intuitive and will provoke much reaction. You are encouraged to share your reactions with the class as they pertain to the material. **However**, side - comments directed to fellow students contribute to distractions that are disturbing to students and will not be tolerated. **Students who distract from the lecture/discussion will be asked to leave the class.**

CELL PHONES:

Cell phones are a convenience, not a right. They create a distraction for your fellow students. **Cell phones are to be turned off while in the classroom. Students who neglect to turn off**

their phones before class will be excused from class for the remainder of the hour if their phones ring during class time.

Class Schedule

<u>Week of:</u>	<u>Chapters:</u>	<u>Readings:</u>
9/21	Chapter 1, Module 1.2	Genetics of Behavior
9/28	Chapter 2	Nerve Cells and Nerve Impulses
	Chapter 3	Synapses
<u>10/7</u>	<u>EXAM I</u>	<u>CHAPTERS 1, 2, and 3</u>
10/7	Chapter 4	Anatomy of the Nervous System
10/12	Chapter 5	Development and Plasticity of the Brain
<u>10/19</u>	<u>EXAM II</u>	<u>CHAPTERS 4 and 5</u>
10/19	Chapter 6	Vision
10/26	Chapter 7	The Other Sensory Systems
<u>11/2</u>	<u>EXAM III</u>	<u>CHAPTERS 6 AND 7</u>
11/2	Chapter 8	Movement
11/9	Chapter 13	The Biology of Learning and Memory
<u>11/16</u>	<u>EXAM IV</u>	<u>CHAPTERS 8, and 13</u>
11/16	Chapter 9	Wakefulness and Sleep
11/23	Chapter 10	Internal Regulation
11/30	Chapter 11	Reproductive Behaviors

Final Exam:

12/7 11:30 - 12:20 EXAM V CHAPTERS: 9, 10, and 11

This schedule is an estimation of the time required to cover the material. It is subject to change. It is essential that you attend class daily to obtain announcements of changes in the schedule.

