Psychobiology (PSY 329-01)  
Spring 2007  
T Th 10:30 – 11:45 am, SB G30

Instructor: Daren Kaiser  
Office: 380F Neff  
Phone: 481-6404 = office  
481-6565 = Lab  
email: kaiserd@ipfw.edu  
web site: http://users.ipfw.edu/kaiserd  
Office hours: 9:00-10:00 am Monday - Friday  
or by appointment


Course Description: Psychobiology is a course that is designed to familiarize you with biological explanations of behavior. During the first portion of the course we will be discussing how the brain and nervous system operate. Later we will discuss biological explanations of various behaviors that we all engage in (i.e., eating and sleeping) as well as disorders that can arise when there are problems with the nervous system.

Course Objectives:  
Objective 1: Understand how the nervous system works.  
Objective 2: Get a feel for the diverse and exciting research that has been going on in psychobiology. We will discuss many fascinating research findings in this course, and you will see that the biology of behavior is being studied in very different ways by the researchers in this field.  
Objective 3: Become a better consumer of psychology. I hope that your experience in this course will increase your skills as a critical thinker. This will better allow you to evaluate claims that are made in the media about why people act the way do.

Point Breakdown: There will be a total of 700 points possible to earn in this course.

<table>
<thead>
<tr>
<th>Exams</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>= 100 pts</td>
</tr>
<tr>
<td>Exam 2</td>
<td>= 100 pts</td>
</tr>
<tr>
<td>Exam 3</td>
<td>= 100 pts</td>
</tr>
<tr>
<td>Exam 4</td>
<td>= 100 pts</td>
</tr>
<tr>
<td>Exam 5</td>
<td>= 100 pts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paper</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper topic</td>
<td>= 10 pts</td>
</tr>
<tr>
<td>References (3)</td>
<td>= 30 pts</td>
</tr>
<tr>
<td>Paper outline</td>
<td>= 30 pts</td>
</tr>
<tr>
<td>First Draft</td>
<td>= 30 pts</td>
</tr>
<tr>
<td>Final Paper</td>
<td>= 100 pts</td>
</tr>
</tbody>
</table>

Course Grading: Your course grade will depend on the average of the five tests and the term paper according to the chart below.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(89.5-100)</td>
<td>A</td>
</tr>
<tr>
<td>(79.5-89.4)</td>
<td>B</td>
</tr>
<tr>
<td>(69.5-79.4)</td>
<td>C</td>
</tr>
<tr>
<td>(59.5-69.4)</td>
<td>D</td>
</tr>
<tr>
<td>(0 - 59.4)</td>
<td>F</td>
</tr>
</tbody>
</table>

The Paper: Each portion of the paper is due on the date specified according to the schedule below. If any portion is late it will not be accepted and you will receive zero points. This is true for the final paper as well. I will need two copies of the final paper. The final paper must be written in APA style, and must have a minimum of five peer reviewed
references. You must turn in each reference (the whole article) with the two copies of your final paper. Failure to turn in
the articles you used to write your final paper will result in zero points awarded. Of course, plagiarism will also result in
zero points awarded.

Attendance: You should always attend class, since it will benefit you greatly in terms of performance on tests.
Absences will be considered excused if the reason for the absence conforms to the requirements of the university to be
considered excused. Unexcused absences on days of exams will result in zero points achieved for that particular exam.
Presentation material that is missed due to an unexcused absence becomes the student's responsibility to obtain.

General Information: If you have a disability or acquire one, contact Services for Students with Disabilities (Walb 113,
481-6657) for the services and accommodations that are available at IPFW.

CASA (Center for Academic Support and Advancement), KT G21
Writing Center, KT G19
Dean of Students Office, Walb 111
Multicultural Services, Walb 118
Academic Counseling and Career Services (ACCS), KT 109

Tentative Lecture, exam, and paper due dates:
Jan 9 – Syllabus: What is Biopsychology - Ch 1
Jan 11 –Biopsychological research - Ch 1
Jan 16 - Evolution and Genetics – Ch 2
Jan 18 – Thinking About the Biology of Behavior Ch 2
Jan 23 - Neurons, Glia, and the General Layout of the Nervous System Ch 3
Jan 25 – The Gross Anatomy of the Nervous System – Ch 3
Jan 30 - The Gross Anatomy of the Nervous System – Ch 3
Feb 1 – Exam 1
Feb 6 – Go over exam + Neural Conduction – Ch 4 -- Topic for Paper is Due
Feb 8 - Neural Conduction – Ch 4
Feb 13– Neural Conduction – Ch 4
Feb 15 – Methods of Studying the Nervous System -Ch 5 -- Three References for Paper are Due (must turn in the
entire article).

Feb 20 – Behavioral Research Methods of Biopsychology Ch 5
Feb 22- Exam 2
Feb 27 – Go over exam + The Visual System from Eyes to Cortex – Ch 6
Mar 1 – The Perception of Contrast and Color – Ch 6
Mar 6 – No Class
Mar 8 – No Class
Mar 13 - Cortical Mechanisms of Vision – Ch 7 -- Outline of Paper is Due
Mar 15 – Cortical Mechanisms of Vision – Ch 7
Mar 20 – Somatosensory System, Chemical Senses, General Model of Sensory System Organization – Ch 7
Mar 22 - Exam 3
Mar 27 – Brain Damage and Neuroplasticity – Ch 10
Mar 29 - Brain Damage and Neuroplasticity – Ch 10 – First Draft of paper is due
Apr 3 - Brain Damage and Neuroplasticity – Ch 10
Apr 5 – What, Where, When and How Much We Eat? – Ch 12 -
Apr 10 – Hunger, Satiety, and Eating Disorders – Ch 12
Apr 12 - Exam 4
Apr 17 - Sleeping and Dreaming: Why do We Sleep? – Ch 14
Apr 19 – Sleeping and Dreaming: Why do We Sleep? – Ch 14 -- Final Paper is Due (a copy of the rough draft, and
copies of all articles cited in the manuscript must be included).

Apr 24 - Principles of Drug Action – Ch 15
Apr 26 - Principles of Drug Action – Ch 15
May 1 – Exam 5 (10:30-12:30 pm)