Catalog Description: A survey of the relationships between the nervous system and behavior. Topics include basic neuroanatomy and neurophysiology, signaling and information processing in the nervous system, psychopharmacology, and selected behavioral topics such as biological rhythms, hunger, thirst, learning and memory. Prerequisite is Psyc 101.

Textbook: There is no textbook required for this course. If you feel that you need a textbook, I used the following texts to prepare lectures for this course.


Attendance Policy: Grading in the class is not based upon attendance, participation, or effort, but only upon performance on the weekly quizzes and final exam. While students are strongly encouraged to attend every class, attendance is required only on quiz days. No make-up quizzes will be given for any reason. If you do decide to attend class, please do not bring children or pets with you. If you arrive late, please be considerate of the people who got here on time.

Tests and Grading: Grades in this class will be based on weekly quizzes and a comprehensive final exam. Quizzes will be given every Wednesday during the first 15 minutes of class beginning January 24th. Don't be late as no provision will be made for latecomers. The quizzes will be 20 questions in length, and there will be 13 quizzes altogether. You must take at least 10 of these. If you take all 13, the lowest 3 scores will be dropped. A missed quiz will count as one of your drops.

The comprehensive final exam will consist of 100 questions taken off the quizzes (copied and pasted word for word). You must take the final exam. The final exam score will be divided in half before being added into your point total. (That makes the final worth 20%, or one fifth, of the course grade.)

Final grades are based on a total of 250 points. No extra credit of any kind is available and there are no points for effort or attendance. Final grades will be based on the following scale: 225-250 A, 215-224 B+, 200-214 B, 190-199 C+, 175-189 C, 165-174 D+, 150-164 D, 0-149 F. There will be no curve.

Dropping the Course: There are no circumstances under which you will be automatically dropped from the course roll. If you decide not to complete the course requirements, you must file an add-drop form with the registrar (see your adviser). Otherwise, you will receive a grade of F. The last day to withdraw from the course with a grade of W is Wednesday, March 21st. Thereafter, a grade of WF will be assigned (by the registrar) to those who drop. (W does not count against your GPA, but WF does.)

Notice to Seniors: If you are planning to graduate next Fall, you must file an application to graduate this semester (and, of course, there is also a fee that must be paid). It is already TOO LATE to apply for Spring graduation. Please look at your program evaluation before submitting your graduation application online. If it does not say Pending Anticipated Complete at the top, your application will not be approved. See your adviser. If it does say that, you should be good to go. Last date for applying has not been announced yet as nearly as I can tell, but there IS a deadline. If you don't meet this deadline, your application will be considered late, and the fee is doubled. It would be best if you applied as early...
as possible after you preregister. Waiting until the last minute is a bad idea in the event that there may be problems.

**Web Site:** Go to ww2.coastal.edu/kingw and click on the link to Psyc 460. Do not go to Moodle.

**Office and Office Hours:** My office is Smith Bldg. 217-I. My office hours this semester are MWF 10:00-10:45, TTh 11:00-11:45, and W 2:00-2:45. It's not easy to reach me by phone, and I do not return calls. My e-mail address is kingw(at)coastal(dot)edu. If you send an e-mail, please include a subject line and tell me your name. I delete e-mails without a subject line without looking at them.

**Course Outline:** The following list of topics is tentative and may be modified if time appears to be a problem. All such modifications will be announced in class and posted at the website. The readings listed in the right column are from the Carlson (2014) textbook and should be considered optional. Additional material may be posted at the website or videos shown in class and may also be subject to being quizzed as announced.

<table>
<thead>
<tr>
<th>topic</th>
<th>reading (optional)</th>
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<tbody>
<tr>
<td>Structure and Function of Cells of the Nervous System</td>
<td>Chapter 2 (all)</td>
</tr>
<tr>
<td>Structure of the Nervous System (neuroanatomy--brief)</td>
<td>(Chapter 3--look at the pictures)</td>
</tr>
<tr>
<td>Psychopharmacology (drugs and behavior)</td>
<td>Chapter 4 (all)</td>
</tr>
<tr>
<td>Sleep and Biological Rhythms</td>
<td>Chapter 8 (pgs. 197 bottom - 215)</td>
</tr>
<tr>
<td>Ingestive Behavior (hunger and thirst)</td>
<td>Chapter 11 (pgs. 267-285)</td>
</tr>
<tr>
<td>Learning and Memory</td>
<td>Chapter 12 (pgs. 299-TBA)</td>
</tr>
<tr>
<td>Vision (if time permits)</td>
<td>Chapter 6 (all)</td>
</tr>
</tbody>
</table>

**Dates to Remember:** You may want to make note of the following dates.

- Monday, January 15th -- Martin Luther King holiday (no classes)
- Monday-Friday, March 5th-10th -- Spring Break (yes, there is a quiz on the 14th!)
- Wednesday/Thursday, March 14/15th -- Advanced Registration for Seniors (28/29th Juniors)
- Wednesday, March 21st -- last day to drop with a W
- Friday, March 30th -- Student Holiday (no classes)
- ?????????????????? -- last day to apply for December 2018 graduation (application to dean)
- Wednesday, April 25th -- last day of classes this semester
- Friday, April 27th at 11:00 AM -- **Final Exam** for this class (in the regular classroom)

**Course Objectives:** The goal of this course is to familiarize students with the basic principles behind brain function and its relationship to cognition and behavior. The course will prepare students to: 1) understand how psychologists think about behavior from a biological/physiological perspective; 2) understand the structure and chemistry of the brain; 3) understand the relationship between brain function and behavioral states such as sleep, eating, and drinking; 4) understand how the brain is changed by experience.

**Student Learning Outcomes:** Upon completion of this course, you should know: 1) what kinds of cells exist in the nervous system and their structure and function; 2) the gross anatomy of the nervous system; 3) what chemicals serve as neurotransmitters in the brain and how those are influenced by drugs; 4) current research on the causes and functions of sleep; 5) how the brain regulates hunger, eating, thirst, and drinking; 6) how memories are formed in the brain.