Psychology 330 (Section 01)  
Foundations of Behavioral Neuroscience  
Fall, 2015, T. Th. 11:30 am – 12:45 pm in ASH 1204

Instructor: Xandra Xu, Ph.D.  
Office: 2211 Au Sable Hall  
Phone: 331-2411  
Secretary Phone: 331-2195

Office hour: T. Th. 2:15 – 3:45 pm  
Or by appointment

Texts:  
Recommended: Materials on reserve in the Mary Idema Pew Library.

Course description:  
This course will examine the physiological basis of behavior. Among topics to be covered are the following: the nervous system; and neural mechanisms involved in sensory and perceptual processes, motor control, sleep, ingestive behaviors, learning and memory, language, and neurological and mental disorders. Lectures will focus on selected concepts and theories. Students will be responsible for all materials presented in the texts as well as lectures.

Course evaluation:  
Exams and the Final Exam: There will be three within semester exams and a final exam. Each exam will be worth 50 points and the final exam 70 points. Exams and the final will consist of identification of brain structures, fill-in the blank, multiple choice, true-false, and essay questions. Multiple choice and true-false questions must be answered on the scantron sheet in order to receive any points for those questions. In the final computation of your grade, the lowest grade of within semester exams may be modified or replaced with the class participation points described below. The final grades will be based upon your percentage of total points (number of points you earned divided by total number of points possible, which is 220) and a class curve.

Grading:  
A - to A = 90 - 100 %  
B - to B + = 80 - 89 %  
C - to C + = 70 - 79 %  
D to D + = 60 - 69 %  
F = below 60 %

Make-up exams: Any within semester exam or the final exam that any student cannot take as scheduled in this syllabus is considered as a missed exam. A score of “0” will be given in any missed exam. Make-up exams for within semester exams will be given on the day of the final exam to students with documentations that substantiate legitimate reasons for missing a scheduled exam. Make-up exams will be in Essay format. You must notify me in writing of your reason for missing the exam and the exam number you intend to make-up. You must turn in the note and documentations to me within a week of the missed exam. If I do not receive a written notification and documentations, there will not be a make-up exam for you. The make-up final will be in Essay format and will be given to only those students with documentations that can substantiate a medical reason for missing the final exam.

Class participation: Formal attendance will not be taken. However, class participation including group activities, quizzes, and answering questions in class will be worth 50 points. Some students do not feel they are
best able to demonstrate their learning on objective examinations. These students and any others who are not
doing as well on the exams as they would like may ask the class participation points being averaged with the
lowest grade of within semester exams. **Note:** each occurrence of disrupting behavior, such as talking to other
students in class without permission of the professor, will reduce the final total points by 3 points.

**Course Schedule:** (Underlined dates are exam dates)

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<tr>
<th>Date</th>
<th>Topic</th>
<th>Chapters</th>
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<tbody>
<tr>
<td>Sept. 1, 3</td>
<td>A physiological approach</td>
<td>Chapters 1 &amp; 2</td>
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<tr>
<td>Sept. 10</td>
<td>Neuron and neural communication</td>
<td>Chapters 2 &amp; 3</td>
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<tr>
<td>Sept. 15, 17</td>
<td>Anatomy of the nervous system</td>
<td>Chapter 3</td>
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<tr>
<td>Sept. 22, 24</td>
<td>Anatomy continued</td>
<td>Chapters 3 &amp; 5</td>
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<tr>
<td>Sept. 29, Oct. 1</td>
<td>Research methods and strategies</td>
<td>Chapters 5 &amp; 4</td>
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<td>Oct. 6, 8</td>
<td>Drugs and behavior</td>
<td>Chapters 4 &amp; 6</td>
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<tr>
<td>Oct. 13, 15</td>
<td>Vision and Audition</td>
<td>Chapters 6 &amp; 7</td>
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<tr>
<td>Oct. 20, 22</td>
<td>Audition and somatosenses</td>
<td>Chapter 7</td>
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<td>Oct. 27, 29</td>
<td>Motor control</td>
<td>Pinel’s P188-202</td>
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<td></td>
<td>Sleep</td>
<td>On Reserve</td>
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<td>Nov. 3, 5</td>
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<td>Chapters 8 &amp; 11</td>
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<td>Nov. 10, 12</td>
<td>Ingestive behavior</td>
<td>Chapter 11</td>
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<td>Nov. 17, 19</td>
<td>Learning and memory</td>
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<td>Nov. 24</td>
<td>Language</td>
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<td>Dec. 1, 3</td>
<td>Neurological disorders</td>
<td>Chapter 14</td>
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<tr>
<td>Dec. 8, 10</td>
<td>Mental disorders</td>
<td>Chapter 15</td>
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**Dec. 16, Wed. 12 – 1:50 pm: Final Exam (2, 3, 4, 12, 13, 14, 15)**

**Drop deadline - grade of "W" - Fri., Oct. 30, 5 pm.**

**Academic Integrity**

Students will do original work and will not take or receive the efforts of another person on any test or
assignment, use unauthorized resources on quizzes or tests, plagiarize, or give/sell other students papers or
assignments *not authorized by the instructor*. **You are responsible** for not giving the appearance of cheating,
such as wondering eyes or talking during exams. **You are responsible** for making yourself aware of and for
understanding the policies and procedures that pertain to academic integrity. To that end, be sure to familiarize
yourself with the GVSU Student Code [Sections 223.00 and 223.01] related to academic integrity.

**Disability**

If there is any student in this class who has special needs because of a learning, physical, or other disability,
please contact me and Disability Support Resources (DSR) at (616) 331-2490. Furthermore, if you have a
disability and think you will need assistance evacuating this classroom and/or building in an emergency, please
make me aware so that the university and I can develop a plan to assist you. It is the *student’s responsibility* to
request assistance from DSR.
Supplemental reading on reserve:

**Chapters 1, 2, 3**


**Chapters 4, 5, 6, 7**


**Motor control, Chapters 8 and 11**


**Chapters 12, 13, 14, 15**


