Course Information
Course Name: The Science of Psychology
Course Number: PSYCUN1101
Course Section: 003
Lecture days: Mondays & Wednesdays
Lecture times: 1:10 – 2:25 PM
Location: 501 Schermerhorn

Instructor Information
Instructor: Tina Kao, PhD
Email address: tk2436@columbia.edu
Office location: 500 Schermerhorn
Office hours: TBD

Course Description
This course provides a broad survey to the study of psychological science. The topics covered will include an overview of the many different areas of study within the field of Psychology, ranging from the biological, to the cognitive and social perspectives. We will discuss the role of the nervous system for cognitions and behaviors. This course will emphasize science as a process of uncovering new ideas and empirical results. Recent advances of research within Psychology will also be presented.

Course Objectives
The objectives for each student taking this course will be a bit different, depending on your circumstances.

If you are interested in the study of Psychology, this course will provide you with a basic understanding of the concepts and research within the field. This course lays the foundation for those with concentrations or majors in Psychology, along with those majoring in Neuroscience and Behavior.

Others may be taking this course in order to fulfill a science requirement. If you are one of these students, this course is designed to be accessible to all students, and you may find that quite a bit of psychological science applies to other academic fields, such as those associated with the humanities and social sciences.

Finally, many of you may be involved in a pre-health track towards a future in medicine, since questions pertaining to Psychology are now part of the MCAT. I will do my best to address MCAT related topics, although it is my hope that you will find the course in its entirety to be an engaging and enriching experience.

Course Grading
Exam 1: 20%
Non-cumulative Exam 2: 20%
Non-cumulative Exam 3: 20%
Experimental Participation (at least 6 credits): 10%
Paper 1: 15%
Paper 2: 15%

The letter grade equivalent for your final grade for the course will be assigned according to the following scale:

97 – 100: A+
96.9 – 93.0: A
92.9 – 90.0: A-
89.9 – 87.0: B+
86.9 – 83.0: B
82.9 – 80.0: B-
79.9 – 77.0: C+
76.9 – 73.0: C
72.9 – 70.0: C-
69.9 – 60.0: D
59.9 & below: F
Exams
The exams will be opportunities to demonstrate how well you have learned the material covered in the course. There will be three equally-weighted exams administered in this course. The exams will consist of multiple choice and short answer questions. For all of the exams, you will be responsible for 1) the material covered in lectures and 2) the assigned readings of the textbook.

Participation in Experiments Offered Within the Department of Psychology
Your experimental participation will consist of you participating in experiments currently offered by the Department of Psychology. All experiments are approved by Columbia’s IRB. A representative from the department will be providing more information about your experimental participation. This will occur early during the semester. NOTE: If you are under the age of 18, please contact Professor Kao as soon as possible, as you are not legally permitted to participate in experiments offered by the department.

Each student is required to complete 6 credits worth of experimental participation. Since 1 credit is given to each student for 30 minutes of experimental completion, and since experiments range from 30 – 90 minutes, plan on participating in more than one experiment.

Paper 1 you is based upon your experimental participation (refer to Papers 1 and 2 below). Therefore, you will need to complete at least one experiment prior to October 24 (this is the due date for Paper 1, so allocate yourself enough time between completion of your experimental participation, and the due date of this paper).

The remainder of credits needed fulfill your experimental participation can be completed anytime on, or before, December 10th. No paper is required for this remainder of credits associated with fulfillment of experimental participation, so just enjoy the experience!

Papers 1 and 2
You are required to write two papers for this course. Both papers should be two-pages, and double-spaced. More specific guidelines will be provided for both Papers 1 and 2. The goals of these papers are for you to demonstrate a fundamental understanding of hypothesis driven research in the academic field of Psychology. A brief description is as follows:

Paper 1 will be based on the experiment you participated in. Note that you need to complete your experimental participation so that you will have enough time to write, and to submit Paper 1 by October 24th. For this paper, you will be expected to write about the basic elements you have learned from the experiment in which you were a participant of (e.g. hypothesis, methods, discussion).

Paper 2 will be an opportunity for you to design and write your own research experiment! You will be expected to incorporate, via an experimental design, any of the materials we have discussed during the course. All of the basic elements of hypothesis driven research (e.g. hypothesis, methods), along with a description of what the predicted results, will be expected for the completion of Paper 2. Again, specific guidelines will be provided for both Papers 1 and 2 as we progress into the semester.

Course Policies
Absences/Lateness
Given the size of the class, I will not be taking attendance, nor will class participation account for any portion of your grade. However, be aware that you will be responsible for the materials covered as part of the lectures, much of which may not be contained in the readings of the textbook. In addition, the materials presented during lecture will constitute greater portions of the exams.
If you are unable to attend the days that the exams are scheduled for, please contact Professor Kao as soon as possible. Please plan ahead: having multiple exams on a single day, or vacation plans, are NOT acceptable reasons for needing to reschedule a make-up exam. For the most part, the only acceptable reason for missing an exam is due to serious illness. If such a situation was to arise, you may proceed to receive permission from myself and from your advising dean to reschedule a make-up exam.

Submissions of Papers 1 and 2 past the deadline dates will result in a reduction of 10% of the total score, for each day of late submission.

**Class Etiquette**
Laptops may be used for course specific purposes. However, please be considerate to those around you if you do use a laptop. I understand that there are many gifted people out there who think that they are capable of multi-tasking between in-depth learning of the foundations of cognition and behavior, while checking their 140-character status updates on Facebook or Twitter. If you believe that you are one of these gifted individuals, please be considerate of the fact that checking non-course-related materials on your laptop will be distracting to those sitting around you.

**Academic Integrity**
Academic integrity means presenting only your own work in your assignments. Taking credit for the work of others is a serious violation of the academic community, and anyone found to be guilty of cheating or plagiarizing will receive a zero for that assignment and will be reported to the University. Information on what constitutes a violation of academic integrity can be found in Columbia’s Undergraduate Guide to Academic Integrity (http://www.college.columbia.edu/academics/integrity).

That said, if you have any questions about how to appropriately cite another’s work or build upon someone else’s ideas, please feel free to contact Professor Kao, or your TAs, as we’ll be happy to help!

**Required Textbook**

**Teaching Assistants and Their Office Hours:**
For **general course inquiries** (course content, assignment clarifications, due dates, etc.) that are not answered by this syllabus, please post your question to the Canvas Discussions page (you’re probably not the only one wondering!).

For **personal inquiries** (missed deadlines, issues uploading assignments, personal concerns, etc.) please email our TA email: TAPsych2019@gmail.com.

Ana M DiGiovanni (amd2323@columbia.edu): Office hours TBD
Manasi Jayakumar (mj2873@columbia.edu): Office hours TBD
**Tentative Schedule for Topics and Readings** (allocations of dates for each topic may vary)  
You are required to complete the readings for the lecture topics *before* each class date.

<table>
<thead>
<tr>
<th>Date(s)</th>
<th>Lecture Topic(s)</th>
<th>Reading(s)</th>
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<tbody>
<tr>
<td>Sept 4</td>
<td>Introduction/Overview of Course</td>
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<tr>
<td>Sept 9, 11</td>
<td>Introduction to Psychology and Research Methods</td>
<td>Chapters 1, 2</td>
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<td>Introduction to Nervous System</td>
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<td>Sept 16, 18</td>
<td>Nervous System and its components: neuroanatomy and mechanisms of action</td>
<td>Chapter 3</td>
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<td>Sept 23, 25</td>
<td>Consciousness: circadian rhythm, modulations associated with neuropharmacology</td>
<td>Chapters 4, 5</td>
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<td>Sensation: psychophysics</td>
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<td>Sept 30, Oct 2</td>
<td>Sensation: sensory transduction</td>
<td><strong>Exam 1 on October 2</strong></td>
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<td>Oct 7, 9</td>
<td>Perception: visual attention</td>
<td>Chapter 5</td>
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<td>Oct 14, 16</td>
<td>Learning: conditioning, observational learning and biological basis of learning</td>
<td>Chapter 6</td>
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<td>Oct 22, 23</td>
<td>Memory: models of human memory</td>
<td><strong>Paper 1 due at the beginning of class on October 23</strong></td>
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<td>Memory: biological basis of human memory</td>
<td>Chapter 7</td>
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<td>Oct 28, 30</td>
<td>Language and Intelligence: elements of directive thinking</td>
<td>Chapters 8, 9</td>
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<td>Human Development: physical, cognitive social patterns of the lifespan</td>
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<td>Chapter(s)</td>
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<td>Nov 4, 6</td>
<td><strong>No class on November 4</strong>&lt;br&gt;<strong>Non-cumulative Exam 2 on November 6</strong></td>
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<td>Nov 11, 13</td>
<td>Motivation: biological motivators, intrinsic vs extrinsic&lt;br&gt;Emotion: physiological aspects of emotions</td>
<td>Chapter 10</td>
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<td>Nov 18, 20</td>
<td>Health and Well Being: stress, behaviors associated with coping&lt;br&gt;Personality: the big five, traits</td>
<td>Chapters 11, 13</td>
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<td>Nov 25, 27</td>
<td>Social Psychology: group behaviors, group influences</td>
<td>Chapter 12</td>
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<td>Nov 25, 27</td>
<td><strong>No class on November 27</strong></td>
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<td>Dec 2, 4</td>
<td>Psychological Disorders: classifications, Diagnostic and Statistical Manual of Mental Disorders (DSM)</td>
<td>Chapter 14</td>
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<td>Dec 9</td>
<td>Psychological Disorders: treatments of symptoms&lt;br&gt;&lt;br&gt;&lt;i&gt;Paper 2 due at the beginning of class on December 9&lt;/i&gt;</td>
<td>Chapter 15</td>
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<td>TBD</td>
<td><strong>Non-cumulative Exam 3</strong></td>
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Please note that this syllabus is subject to revisions throughout the semester. Refer to Canvas for updates.