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Winter 2018 Course Syllabus
PSY 365: Cognition (02)
Tuesday & Thursdays 11:30 am - 12:45 pm, LOH 174
Department of Psychology

Instructor:  Walter Sá, Ph.D.
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Office Phone: 616-331-3705
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Office Hours: Tuesdays & Thursdays 1:00 pm to 2:00 pm (and by appointment.)

Course Description
This course concerns itself with the science of mind. The contents and processes of mind such as thinking, reasoning, perceiving, attention, memory, knowledge and language are of central interest to theorists and researchers in the areas of cognitive psychology and cognitive science in general. This course will provide a historical background to the modern science of mind, illustrate some pertinent research methods, and cover some important empirical findings and theories in the study of cognition.

Course Objectives: Upon successful completion of this course students will be able to:
1. Summarize the important methods, research findings, and theories of cognition.
2. Evaluate current issues in cognition research.
3. Compare the strengths and weaknesses of various theories of cognition.
4. Explain how cognition is studied empirically.

Textbook (Required):

E-Reserved Readings:


Stanovich, K. E. (2013a). Falsifiability: How to foil little green men in the head. Chapter 2 (pp. 21-36) from How to Think Straight About Psychology (10th Ed.)

Stanovich, K. E. (2013b). Operationism and essentialism: "But, doctor, what does it really mean?" Chapter 3 (pp. 37-52) from How to Think Straight About Psychology (10th Ed.)

It is important that you keep up with the assigned readings throughout the entire duration of the course. Assigned readings will be officially announced in class. E-reserve readings will also be indicated via the due dates of the reading assignments (see page 3.) Additional readings may be added on to the above E-reserve listing (& not all of the above may be assigned). Any modifications will always be announced in class.

Course Evaluation

I. Exams (70% of grade)
   Midterm Exam 1 20 points (20%)
   Midterm Exam 2 20 points (20%)
   Final Exam (Semi-Cumulative) 30 points (30%)

II. Assignments (15% of grade)
   Reading Assignments 12 points (12%)
   Journal Article Review Assignment 3 points (3%)

III. Participation (15% of grade)
   In-Class Activities (unannounced) 15 points (15%)

100 points*

*Note that since the sum of all points is 100, the terminology “points” and “percentage” are interchangeable in this scheme.
Exams (3): 70% of final grade

There will be two midterm exams and a “semi-cumulative” final exam. Exams will consist of multiple-choice, fill-in-the-blank, and short answer questions. Questions will be drawn from both lectures and assigned readings. Although there will be a very large overlap between lecture content and assigned readings, lectures will present some material not found in the assigned readings and also not cover some material found in assigned readings. A consequence of this is that a non-trivial portion of exam questions will comprise of material that is unique to either lectures alone or assigned readings alone. In other words, to do “well” on the exams you must do both the assigned readings and attend class (which means paying attention and taking good notes—not just physically being there). Midterms will test lecture and reading material covered prior to exam date (2nd midterm will test only material covered after the first midterm). The final exam will be “semi-cumulative.” It will consist of material covered after Midterm 2 and material throughout course that was specifically designated as final exam content (for example, all of Topic 2 will be designated as final exam content).

On exam days . . .

Make sure you bring to class a black lead pencil (#2 or softer) and a “good” eraser. You will be responding on a scantron form.

A point of caution: Be careful when filling these scantron forms. Bubbles should be filled in properly, and you should thoroughly erase any changed answers. No corrections will be made as a result of errors on your part.

Emergency closings: In the event that the university closes on the date of a scheduled midterm exam, the affected exam will be held during our next regularly scheduled class.

On missing exams . . .

Don’t! Rescheduling exams presents problems for the class as a whole, for me as an instructor, and for support staff in the psychology department. Numerous people may be inconvenienced by modifications to course scheduling.

If, however, you miss an exam for an extremely good reason, be prepared to provide documentation for your justified absence (e.g., a doctor’s note) and be prepared to make up the exam ASAP. This is by no means an issue I take lightly, you must have a very good reason for your absence and you must be able to document it for me. Please promptly offer your documentation rather than waiting for me to initiate that rather “uncomfortable” conversation about documenting your justified reason.

If you are going to be absent, get in touch with me ASAP--this is your responsibility (do not wait for me to get in touch with you, or simply wait until you see me at the next class). If I do not hear from you within 24 hours of the exam, you have forfeited your opportunity to write the exam.

Reading Assignments: 12% of final grade

Reading assignments will require that you thoughtfully read some E-Reserved material(s) and answer a set of provided questions. These assignments will be made available on blackboard and will be graded on a credit / no credit basis. Responses are to be made in your own words with no quotations taken from articles. Avoid skimming the assigned readings for answers as this may result in a non-credited assignment. There will likely be eight of these assignments, thus each being worth 1.5 points—but this number is subject to change as it may be increased (or even decreased). Regardless the number of assignments given, each assignment will be of equal weight and your final reading assignments score will be converted to a score out of a total of 12 points.
The following will result in assignments NOT receiving credit:
1. Incomplete assignment (e.g., missing a response to a single question)
2. Responses in which your own wording was not used.
3. Assignments containing responses that do not clearly evidence a reflective reading of the material (e.g., responses being overly brief, incomplete, or completely “off-mark.”)

**Journal Article Review Assignment: 3% of final grade**
Details concerning the journal article review assignment will be outlined in class sometime after our coverage of Topic 2. The content of the research methods unit (topic 2) will be very relevant to this assignment.

**In-Class Activities / Participation Points: 15% of final grade**
In-class activities will almost always be unannounced and will be graded on the basis of participation (completed vs. not completed). Many of these will amount to a quick “mini” experiments generating class data that will serve to illustrate upcoming course concepts/material. Some others may take the form of pop quizzes or quiz-like activities that touch upon either assigned readings that should have been completed or material just presented in class that day. **You will not be able to make-up any in-class activity you miss due to absence** (however missing only one in-class activity will not affect your grade—but see below grade details). If you have a valid reason (e.g., illness) for missing one, obtain documentation for this absence (e.g., doctor’s note) and supply this to me when you’ve missed a second in-class activity (i.e., at the point when the absences will actually have an impact on your grade). Note that these activities will be brief in duration (typically about 10 minutes or less) and you must be in class during the time of their administration to be credited.

**Scoring Details:** Your first absence results in a zero-point deduction. Your second absence will result in a one-point deduction. Your third absence results in an additional two-point deduction. Each subsequent absence beyond your third will result in an additional one-point deduction. Note that these activities will be brief in duration (usually ~10 minutes or less) and you must be in class during the time of their administration to be credited.

**Attendance**
While attendance is expected and most strongly urged, you will not be directly penalized for missing classes (i.e., attendance is not taken). If you must miss a non-exam date class you need neither secure my consent nor supply me with a reason for the absence. But please note that missing classes will likely have consequences on your grade in this course: i) I will be presenting material in class that is not covered in the assigned readings; ii) I often clue students in to especially important assigned reading material during lectures; iii) in-class activities are usually unannounced; iv) I do not provide lecture notes for missed classes—please do not ask as I can make no exceptions on this out of fairness to all students; v) you may miss important announcements and/or handouts. You can mitigate some of these—see the A helpful suggestion section below.

**Please do NOT email me the following (or variants of the following) questions:**
1. “I missed class today. Did I miss anything important?”
2. “Can you send me the lecture notes that I missed?”
3. “I am going to miss class because . . . will there be an in-class activity today?”
Answers to above questions will always have to be:
1. Yes!(?)
2. No, sorry.
3. Maybe.

On being late for classes
It is a mistake to think that missing the first few minutes of class is harmless. All things being equal, the worst x minutes that you could possibly miss in a lecture is often the **FIRST x** minutes. Those first few minutes of class are often where the context for all the remaining lecture material gets outlined. Your comprehension of lecture material will often be “challenged” when you miss the preceding material—even just a few minutes.

A helpful suggestion
Get to know some of your fellow classmates. Pair up with at least one other student as a “Lecture-Notes-Buddy.” That is, in the event you do miss a class, your Lecture-Notes-Buddy will allow you to copy her/his notes for the missed. Do not expect the instructor to provide you the notes for a missed class. Do not expect the instructor to recap for you an entire missed lecture after class.

Our responsibilities:
Both the professor and student have responsibilities in the teaching / learning process.
My responsibilities as an instructor include...
• being well organized
• being courteous and helpful with students
• providing an updated and informative course
• returning graded materials promptly
• being fair and unbiased with grading

Your responsibilities as a student include...
• attending classes and being punctual--especially for exams!
• paying attention in class and taking notes
• asking questions about material you do not understand
• seeking help with material if you’re having difficulty (e.g., meeting with me)
• not creating distractions for other students or the instructor (e.g., excessive talking) **Please silence your phones.**
• doing the assigned readings and studying the course material

A note about student dissatisfaction with grades:
An unfortunate reality of any course is that not all students will obtain the final grade they desire. Some students may even fail the course. As an instructor of the course, my responsibility is to insure that evaluation procedures were fair. To a very large extent, this can be determined by how the class is performing overall. If your performance as a member of this class is substantially below the general class performance, then you cannot simply claim that the evaluation procedures were unfair. Some careful thought has to be given to what else might possibly be wrong, and how it might be changed.
To minimize any damage to your student records, it is important that you consult with me very early once difficulty arises. Remain vigilant about your progress in the course.
When students approach me late in the term claiming that they NEED a specified grade, what can I (the instructor) do for them? the answer will be disappointing. As long as the grading procedures were fair, YOU as a student are in control and responsible for your own grade. As an instructor, I must be fair and unbiased with the grading procedures, which includes sticking to the same procedures that applied to the entire class. Deviations on my part from the outlined procedures for any single student amounts to cheating those students who were evaluated under the original scheme.

Topics covered:
The following is a list of the topics that will be covered in this course. Although no dates are indicated below, we will progress through the topics in the order listed. Exam dates have already been scheduled (see Exam and other important dates section). Topics are not of equal length (i.e., the duration of time we devote to them.) Please note that Topic # ≠ Chapter #.
Throughout the course I will often refer to the topic number as indicated below.

<table>
<thead>
<tr>
<th>#</th>
<th>Topic</th>
<th>Assigned Readings†</th>
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<tbody>
<tr>
<td>1</td>
<td>History &amp; Foundations</td>
<td>Chapter 1</td>
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<tr>
<td></td>
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<td>[Shimamura, 2010; Satel &amp; Lelienfeld, 2013]</td>
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<td>2</td>
<td>Common Methods used to study Cognition</td>
<td>E-Chapter Supplement: Research in Cognition: Investigating Mind and Brain</td>
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<td></td>
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<td>[Stanovich, 2010a; Stanovich 2010b]</td>
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<td>3</td>
<td>Perception</td>
<td>Chapter 2: pp. 45-61 (stop @ Perception and Action)</td>
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<td>[Pavani et al., 2000]</td>
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<td>Chapter 5: pp. 186-90 (stop @ Individual Differences)</td>
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<td>Chapter 2: pp. 68-81</td>
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<td>4</td>
<td>Attention</td>
<td>Chapter 3: pp. 83-86; 98 (start @ Attentional Blink)-109; 116 (start @ Automatic Processing)-127.</td>
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<td>Chapter 4: pp. 129-151 (stop @ A Unitary View of Mem.); 159 (start @ Mind Wandering)-161 (stop @ Ironic Processes...); 164 (start @ Improving Executive Function)-170</td>
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<td>[Colom et al., 2003; Shipstead et al., 2010]</td>
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<td>5</td>
<td>Memory Processes &amp; Knowledge Representation</td>
<td>Chapter 6 and Chapter 7 (Chapter 8 is optional)</td>
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<td>[Roediger &amp; Karpicke, 2006; Roediger &amp; Marsh, 2005; Pylyshyn, 2003]</td>
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<td>6</td>
<td>Reasoning, Judgment and Decision Making</td>
<td>Chapter 11; Chapter 12: pp. 510 (start @ Algorithms)-511.</td>
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<td>[De Neys, 2006; Evans, 2005]</td>
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† IMPORTANT: The above readings may NOT be the official assigned readings that you are responsible for. Some of the above may be scaled back and/or additional readings may be assigned. These modifications will always be announced in class.

Note: Above readings in brackets refer to E-reserve material (these will be explicitly assigned via the reading assignments.)
Exam and other important dates:

- Last day 100% refund: January 12
- Last day 75% refund: February 2
- Midterm 1: February 8
- Spring Break: March 4 - 11
- Drop deadline with a grade of “W”: March 9
- Midterm 2: March 22
- Journal Article Review Assignment: April 5 (in class)
- Final Exam (semi-cumulative): Wed April 25, 12 noon

Course Grade Schedule:

- A: 92-100 points
- A-: 90-91 points
- B+: 88-89 points
- B: 82-87 points
- B-: 80-81 points
- C+: 78-79 points
- C: 72-77 points
- C-: 70-71 points
- D+: 68-69 points
- D: 60-67 points
- F: < 60 points

Important: Your continuation in this course indicates your acceptance of the above schedule and procedures. The above schedule and procedures, however, are subject to some modification in the event of extenuating circumstances (as assessed by the instructor).