Biological and cognitive psychology together try to understand some of the great mysteries of the human mind. Where does consciousness come from? How does our brain produce our personal experiences of things like colour or sound? How does language affect our experience of the world? What do different parts of the brain do?

This course will explore the basics of how the brain works from the cellular level up to the different structures and their functions, as well as give an overview of what we currently know about cognitive processes such as memory, consciousness, perception and language.

The course will aim to provide you with the skills you need to interpret scientific research, as well as design your own research to answer questions about the brain and mind.

Your Instructors

Chelsie Kadgien
Chelsie is a PhD candidate in Neuroscience at UBC. She received her BSc with distinction from UVic. Her research interests are how brain cells communicate with one another, the cellular processes underlying changes in this communication, and how these processes are disrupted in neurodegenerative diseases like Parkinson disease.

Meagan Auger
Meagan is a PhD candidate in Neuroscience. She received her BSc with distinction from UVic and her MSc from McGill. Her research investigates how the neurotransmitters GABA and dopamine regulate cognition and their involvement in schizophrenia.

Natasha Pestonji
Natasha is a PhD student in Cognitive Science in the Psychology department at UBC. She received her Honours BA from McGill and her MA from UBC. Her research interests are studying how we make unconscious preference decisions (such as how we decide which university to attend, or which chair we choose at a restaurant).

Your TA: Viorica Hrincu
Viorica is a Masters student at the National Core for Neuroethics. She has completed degrees in Cell Biology from the University of Alberta, and Cognitive Systems from the University of British Columbia. Her work involves themes surrounding technology, autonomy, and decision-making. Aside from science, she also very much enjoys writing, seeing live music, traveling, and beer (amongst other things).

Contact your instructors for questions regarding the lecture content.
Contact your TA for questions regarding textbook content or course administration.
Instructors: pscy101@psych.ubc.ca  Office Hours: Thursdays 11am-12pm; Kenny 2101
TA: vioricafied@gmail.com  Office hours: Mondays 11am-12pm;
Room S124, Koerner Pavilion, 2211 Wesbrook Mall
COURSE GOALS
By the end of this course, students should be able to:
1) Understand the scientific method to answer questions within psychological science;
2) Describe the interplay between biological processes and behaviour;
3) Critically evaluate methods used within the field of psychology, including behavioural studies, animal work, brain imaging studies, patient work, and other relevant methods;
4) Apply concepts learned in class to real-world situations.

COURSE MATERIALS
✓ MyPsychLab (packaged with text or available for purchase through the Pearson Link under ‘Content’ in Connect) See below.
✓ UBC Connect (our course website): You can log in with your UBC Campus-wide Login: https://connect.ubc.ca
✓ Piazza: You can access the course at https://piazza.com. You will receive an email inviting you to the course Piazza within the first week of school.

TECHNICAL SUPPORT
UBC Connect
https://it.ubc.ca/services/teaching-learning-tools/connect

Pearson MyPsychLab
https://www.pearsonmylabandmastering.com/northamerica/students/support/index.html

Piazza
Piazza is an online discussion board for the course. We encourage you to post any questions about the course, including about content or policies, here first. Why? Somebody may have already posted the answer to your question and if not, it’s likely that other people have the same question as you. By posting on Piazza, everyone in the course benefits from the questions you may have. If you know the answer to a question, you may also answer it. Activity on Piazza will be monitored by the instructor and by the TA to verify the accuracy of the responses. You will receive an email inviting you to our course on Piazza in the first week of the semester. If you do not receive the email, please contact the instructor.

EXPECTATIONS
What we expect from you
Class attendance and punctuality. Please arrive on time for each class, and refrain from packing up early to leave before class is over. Arriving late or packing up early is disrespectful and disruptive to both your instructor and fellow classmates. If you miss a class, it is your responsibility to contact a fellow student to find out what you missed. The lecture slides alone will NOT be enough for you to learn and succeed in this class.

Participation and attentiveness. Please come prepared with assigned readings/tasks completed for each class. Be sure to bring paper, a pen/pencil, (and caffeine as needed!) to each class. We expect you to actively participate in class discussions, applications, and activities. These activities have been thoughtfully designed to help you learn, engage with the material, and succeed
in the course and your ongoing undergraduate career.

Respectful communication and conduct. You are expected to remain respectful in all communication with your instructor, TA, and fellow classmates, both inside and outside the classroom (email, Connect, etc.). Productive discussion and debate is encouraged, but any unprofessional behaviour will not be tolerated.

Ethical conduct. Cheating will NOT be tolerated. Please see course policies for more information on academic misconduct.

Responsible technology use. Laptops or tablets are acceptable for note-taking and current class activities in the classroom. Cell phone use is not. Please take the time to ensure your devices do not ring, beep, buzz, or otherwise disrupt and annoy anyone else in the class. It is unacceptable to be texting, calling, or otherwise using your phone in class - this not only disrupts your learning, but also distracts the students around you. If you plan to use your laptop in class for anything other than note-taking (including a quick email check!), please sit further back in the class to prevent distracting your classmates.

What you can expect from us

Punctuality, preparedness and enthusiasm. Just as we expect you to arrive on time, be engaged and come prepared, you can expect the same respectful conduct from us.

Availability. We are available for questions by email, on Connect, and in person just before/after class and during office hours. Please feel free to come by office hours to discuss any aspect of the course or academic life at UBC. We are in the office during this time. If you absolutely cannot attend an office hour, please contact your TA or instructor to set up an appointment. We will do our best to accommodate you.

Lecture slides. Lecture slides will be posted by 10pm the night before class. We will also post a final copy of the lecture slides within 24 hours after class. Please feel free to print/bring along lecture slides. However, note that the information contained on slides is NOT comprehensive.

**LEARNING APPRAISALS**

Each of the course assessments is designed with the course goals in mind.

<table>
<thead>
<tr>
<th>Learning Appraisal</th>
<th>Points to Earn</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm #1</td>
<td>25%</td>
<td>September 30, 2016</td>
</tr>
<tr>
<td>Midterm #2</td>
<td>25%</td>
<td>November 2, 2016</td>
</tr>
<tr>
<td>Final exam</td>
<td>40%</td>
<td>During final exam period</td>
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<td>MyPsychLab quizzes</td>
<td>8%</td>
<td>Chapter 1: September 9, 2016</td>
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<tr>
<td></td>
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<td>Chapter 2: September 16, 2016</td>
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<td>Chapter 3: September 23, 2016</td>
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<td>Chapter 4: October 14, 2016</td>
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<td>Chapter 5: October 21, 2016</td>
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<td>Chapter 6: October 28, 2016</td>
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<td>Chapter 7: November 18, 2016</td>
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<td></td>
<td></td>
<td>Chapter 8: December 2, 2016</td>
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<tr>
<td>Human subject pool participation</td>
<td>2%</td>
<td>Must be completed by Dec.2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td></td>
</tr>
<tr>
<td>Bonus HSP participation</td>
<td>3%</td>
<td>Must be completed by Dec. 2</td>
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</tbody>
</table>
Midterm 1 and Midterm 2 (25% each):
Midterms will be composed of multiple choice and short answer questions. The first midterm will cover material from the first third of the course. The second midterm will cover material from the first midterm onwards (the second third of the course). These tests are designed to ensure we are all on the same page and have a solid foundation as we continue to explore the course material.

Final Exam (40%):
The final exam will be structurally similar to the midterms but it will be cumulative (covering material from all parts of the course) and longer. While the exam is cumulative, 70% of the material will be on the last third of the course (material after the second midterm), with 30% from material before the second midterm.

Exam reviews will be held approximately two weeks after each exam. If you wish to view your exam and discuss your grade, please plan to attend exam review sessions.

Please see course policies for information on missed exams. Any material covered in class or any assigned reading is fair game for the exams.

MyPsychLab Assignments (8%)
You will be assigned a brief activity/quiz on MyPsychLab for each chapter. These quizzes will be due on Fridays at midnight (see Assessment calendar). The quizzes are meant to help you prepare for the exam and to encourage you to read the chapter material before class, and each is worth only 1% of your grade.

Human Subject Pool (HSP) Participation & Bonus Points
One exciting way to learn more about psychological research is to participate in the research projects going on here at UBC. Many undergraduate/graduate students are involved in ongoing research, and need participants. This is a great opportunity to learn more about what kinds of studies go on, understand what research is like, and have some fun while earning extra credit! 2% of your final grade will come from HSP participation, and you can also earn up to 3% bonus credit by participating in up to 3 hours of research (1 hour = 1%) of studies posted at https://ubc-psych.sona-systems.com. If you do not wish to be a research participant, you can complete library assignments, which consists of reading and summarizing a paper from the Psychological Science journal. Further information about these library assignments can be found at http://psych.ubc.ca/internal/human-subject-pool/. You must complete at least 2 credits worth of research participation or library assignments for 2% of your grade and have the option of completing up to 3 additional credits worth of research participation or library assignments or a combination thereof for a total of up to 3% for the bonus. Credits can be recorded and tracked via the HSP website. If you do not correctly assign your credits to this course, you will not receive credit so please make sure you have done this correctly. HSP bonus points will be added to your final total course grade after any necessary scaling has been applied. Any questions about HSP credits should be directed to either the HSP administrator (hspresearch@psych.ubc.ca) or the researchers whose studies you participated in. The last day to participate in HSP studies or complete assignments is the last day of classes: December 2, 2016.
WITHDRAWAL

If you wish to withdraw from this course without any record of this course on your transcript, you must do so before or on Sept 23, 2016. If you wish to withdraw with a "W" on your transcript, you must do so before or on Nov 25, 2016.

COURSE POLICIES

Email Policy
We will try our best to respond to emails within 48 hours, not including weekends. Though we will try to check our email regularly, please do not count on email responses for last-minute questions prior to an exam or assignment deadline. Ensure that you know and understand requirements well in advance, or ask your peers for help and insight.

We will answer one question per email and ask that you try to answer the question yourself in the email so we can address the answer to your level of knowledge. If you have more than one question, or a question that is too complex to answer in a brief email, we ask that you come to office hours to discuss it. This will allow us to provide a more thorough answer and ensure that you actually understand.

Academic misconduct/integrity
The university has a strong view on academic dishonesty. The choices you make in this course may not only result in a failing grade for the course, but could have long-term impacts including cancellation of scholarships, a notation added to your transcript, suspension or expulsion from the university, and an inability to attend other post-secondary institutions.

Why is academic dishonesty such a big deal? As you are entering the academic community, you will learn that knowledge and ideas are the currency of academia (Rawn, 2015). Therefore, plagiarism is theft.

UBC’s Academic Misconduct Policy
Cheating, plagiarism, and other forms of academic misconduct are very serious concerns of the University, and the Department of Psychology has taken steps to alleviate them. The Department has implemented software that can reliably detect cheating on multiple-choice exams by analyzing the patterns of students’ responses.

All graded work in this course, unless otherwise specified, is to be original work done independently by individuals. If you have any questions as to whether or not what you are doing is even a borderline case of academic misconduct, please consult one of your instructors, or your course TA.

For details on pertinent University policies and procedures, please see Chapter 5 in the University of British Columbia Calendar (http://students.ubc.ca/calendar) and read the University's Policy 69 (available at http://www.universitycounsel.ubc.ca/policies/policy69.html).

Access and Diversity
Accommodations are available for any students with physical or learning disabilities. Please contact Access and Diversity (Brock Hall 1203, 604-822-5844, www.students.ubc.ca/access) to make any arrangements for concessions or alternative test-taking arrangements.

Taking exams
We believe that punctuality shows respect to your instructor, teaching assistant, and
fellow students. A student will not be allowed to write a midterm or the final exam if: 1) They are late by 30 minutes or more, or if 2) another student has already finished and submitted their exam, whichever occurs first. Students in this situation will not be allowed to write the exam and will receive a zero. Please note: If you start an exam late, you will NOT receive extra time at the end of the exam.

There will be no “in and out” privileges during midterm exams (e.g. bathroom breaks) unless you have a documented medical reason for doing so. Medical documentation must be presented to your instructor at least 24 hours prior to the exam so proper arrangements can be made. You will receive an escort to the bathroom during the final exam.

Note that during any exam, any instructor or invigilator reserves the right to move you to a new seat without providing an explanation.

When time is called at the end of the exam, you must immediately stop working and submit your exam materials. You will not be allowed more time for any reason, including (but not limited to): putting your name or ID on the exam or filling in or changing an answer. You must also remain completely silent until every exam has been collected. Failure to stop working when time is called or to stay silent until all exams have been collected will result in a zero on the exam. Failure to put proper identifying information on the scantron portion of the exam will result in a zero for the exam.

Under no circumstances are cell phones or laptops permitted in any examination room.

**Scantron tests**

Your midterm and final exams will use Scantron sheets for the multiple-choice portion. These sheets require you to use **PENCIL** only to bubble in your answers. Please make sure you have a few pencils at each exam, and that you thoroughly fill out the bubbles. Exams written in pen or not fully filled in will receive no marks. You will NOT receive extra time at the end of the exam to fill in your scantron sheet. Make sure you do this as you go along.

**Missed tests**

You will not be accommodated for missing a midterm unless you have a valid doctor’s note, or there has been a close death in the family (which will be verified). You may scan and email your documentation to your instructor. Being excused from a midterm is at the sole discretion of your instructors.

If you are excused from Midterm 1, that portion of the course grade will be evenly split between Midterm 2 and the Final. If you are excused from Midterm 2, that portion of the course grade will be added to the Final. If you are excused from both Midterm 1 and Midterm 2, you will be assigned a research paper or project to make up for the portion of the grade corresponding to both Midterm 1 and 2.

If you miss the final examination, you must connect with Faculty of Arts Academic Advising to request academic concession within 48 hours (unless medically impossible). A make-up exam will be given. Make-ups for the Final may differ from the version used for the rest of the class.

**UBC Psychology Departmental Grading Guidelines**

In order to reduce grade inflation and maintain equity across multiple course
sections, all psychology courses are required to comply with departmental norms regarding grade distributions. According to departmental norms, the mean grade in a 100-level class is 69 for a good class, 67 for an average class, and 65 for a weak class, with a standard deviation of 14. Scaling may be used in order to comply with these norms; grades may be scaled up or down as necessary by the professor or department. Your final grade consists of the items described in the assessments section of this syllabus. Performance for each of the items above will be put into a calculator that outputs your final course percentage earned. Any extra credit earned will be added to this final score. Grades are not official until they appear on a student's academic record. You will receive both a percent and a letter grade for this course. At UBC, your course percentage is converted according to the key below:

A+  90-100%
A   85-89%
A-  80-84%
B+  76-79%
B   72-75%
B-  68-71%
C+  64-67%
C   60-63%
C-  55-59%
D   50-54%
F (Fail)  0-49%

HELPFUL RESOURCES
In addition to your instructor and TA, the course Connect website, and your fellow classmates, the following are some external resources that may help you in this course:

UBC Learning Commons
The learning commons website provides a wide selection of academic resources. From tutoring information to studying tools, it’s a great place to check out if you have questions: http://learningcommons.ubc.ca/

UBC Library Resources
The UBC Library has put together a page to specifically aid psychology students with research. This is a great place to start searching for good, peer-reviewed sources of information: http://guides.library.ubc.ca/psychology

WELLNESS RESOURCES
Below you will find a list of resources you may want to utilize if you are struggling in any way to manage your responsibilities while in school or the stresses of life in general.

The Kaleidoscope: the-kaleidoscope.com
A confidential peer-run mental health support group that takes place on campus at least once a week. You may attend the group if you are experiencing any kind of mental health related challenges, or if you’re just feeling stressed about school in general. Registration is not required to attend the group. See the website for meeting times and locations. Food and drink are provided.

Counselling Services:
students.ubc.ca/livewell/services/counselling-services Phone number: 604-822-3811 Counselling services offers a variety of resources to help you maintain your mental health while in school. You may see a counsellor on an individual basis, attend group counselling, or to document an illness if you should require academic concession.

SpeakEasy:
ams.ubc.ca/services/speakeasy/ Phone number: 604-822-9246 A student run service that offers confidential support for students experiencing crisis. Also a
good resource for additional information and referrals within the UBC community.

**SHARE:** www.vivreshare.org
Self Harm Anonymous Recovery and Education is a program designed to promote self care and educate about self harm. SHARE support groups meet biweekly; times and locations can be found on their website.

**UBC Wellness Centre:**
students.ubc.ca/livewell/services/wellness-centre
Phone number: 604-822-8450
Speak with other students about tips for managing stress, keeping healthy sleep and eating patterns, concerns about safe sex and more.

**Access and Diversity:**
students.ubc.ca/about/access
Phone number: 604-822-5844
Access and Diversity provides accommodations for students living with physical or mental disabilities.

**Mood Disorders Clinic UBC:**
ubc-mooddisorders.vch.ca/
A psychiatric program designed specifically to treat individuals living with depression or bipolar disorder.

**Live Well, Learn Well:**
students.ubc.ca/livewelllearnwell
The Live Well, Learn Well initiative is a resource hub that provides students with information to help improve physical and mental wellbeing.

**Mental Health Awareness Club:**
ubcmhac.sites.olt.ubc.ca/
A club that offers opportunities to speak about mental health with others and strives to promote mental health awareness throughout the UBC community.

**Pacific Spirit Addiction Services:**
Phone number: 604-267-3970
A free and confidential service for youth and young adults up to the age of 24. Services include counselling, access to an addiction physician - including usage of a methadone maintenance program - and a drug education series.

**AMS Food Bank:**
ambs.ubc.ca/services/food-bank/
If you are in a financial emergency AMS food bank can provide you with a food hamper. You are able to use the service up to 6 times each term.

**UBC Psychology Clinic:** clinic.psych.ubc.ca
Professional psychological services provided to the community, including assessment & treatment for children, adults & families by clinical psychology trainees.

**BC Crisis Center: crisiscentre.bc.ca**
Phone number: 604-872-3311
Non-profit, volunteer-driven organization that provides emotional support to youth, adults, and seniors in crisis in BC. Crisis line available 24/7.

**Distress Line:**
Phone number: 1-800-Suicide (784-2433) If you are in distress or are worried about someone in distress who may hurt themselves, call 1-800-SUICIDE 24 hours a day to connect to a BC crisis line, without a wait or busy signal.
<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>Course Calendar Required readings</th>
<th>Learning Appraisals</th>
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</thead>
<tbody>
<tr>
<td>Sept 7</td>
<td>Course Introduction</td>
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<tr>
<td>Sept 9</td>
<td>History of Psychology</td>
<td>Chapter 1: P. 2-14</td>
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<td>Sept 12</td>
<td>Scientific Thinking</td>
<td>Chapter 1: P. 15-34</td>
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<td>Sept 14</td>
<td>Scientific Thinking &amp; Research Methods</td>
<td>Chapter 2: P. 44-65</td>
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<td>Sept 16</td>
<td>Research Methods</td>
<td>Chapter 2: P. 44-65</td>
<td>MyPsychLab Chapter 1 and 2 exams</td>
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<td>Sept 19</td>
<td>Intro to Graphs &amp; Statistics</td>
<td>Chapter 2: P. 66-76</td>
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<td>Sept 21</td>
<td>Neurons</td>
<td>Chapter 3: P. 85-89</td>
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<td>Neurons</td>
<td>Chapter 3: P. 89-95</td>
<td>MyPsychLab Chapter 3 exam</td>
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<td>Sept 26</td>
<td>Neuroanatomy</td>
<td>Chapter 3: P. 94-104 &amp; P. 108-115</td>
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<td>Sept 28</td>
<td>Genetics</td>
<td>Chapter 3: P. 115-119</td>
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<td>Sept 30</td>
<td>MIDTERM I</td>
<td>MIDTERM I</td>
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<td>Oct 3</td>
<td>Vision I</td>
<td>Chapter 4: 125, 131-134</td>
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<td>Oct 5</td>
<td>Vision II</td>
<td>Chapter 4: 135-138, 150-155</td>
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<td>Oct 7</td>
<td>Hearing</td>
<td>Chapter 4: 138-141, 155</td>
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<td>Oct 10</td>
<td>Canadian Thanksgiving</td>
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<td>Oct 12</td>
<td>Other senses</td>
<td>Chapter 4: 141-149</td>
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<td>Oct 14</td>
<td>Psychophysics and attention</td>
<td>Chapter 4: 126-130</td>
<td>My PsychLab Chapter 4 exam</td>
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<td>Oct 17</td>
<td>Consciousness</td>
<td>Handout on connect</td>
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<td>Oct 19</td>
<td>Sleep</td>
<td>Chapter 5: 165-175</td>
<td>My PsychLab Chapter 5 exam</td>
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<td>Oct 21</td>
<td>Drugs</td>
<td>Chapter 5: 187-193</td>
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<td>Oct 24</td>
<td>Drugs cont’d + addiction</td>
<td>Chapter 5: 184-186</td>
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<td>Oct 26</td>
<td>Intro to learning</td>
<td>Chapter 6: 199-203</td>
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<td>Oct 28</td>
<td>Classical conditioning</td>
<td>Chapter 6: 204-208</td>
<td>My PsychLab Chapter 6 exam</td>
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<td>Oct 31</td>
<td>Operant conditioning</td>
<td>Chapter 6: 209-221</td>
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<td>Nov 4</td>
<td>Observational learning</td>
<td>Chapter 6: P. 222-230</td>
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<td>Nov 7</td>
<td>Learning wrap-up</td>
<td>Chapter 6: P. 231-234</td>
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<td>Nov 9</td>
<td>Memory Processes</td>
<td>Chapter 7: p. 251-259</td>
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<td>Nov 11</td>
<td>Remembrance Day</td>
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<tr>
<td>Nov 14</td>
<td>Sensory/STM</td>
<td>Chapter 7: p. 239-250</td>
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<tr>
<td>Nov 16</td>
<td>LTM/Biology of memory</td>
<td>Chapter 7: p. 260-267</td>
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<td>Nov 18</td>
<td>Prospective Memory</td>
<td>Chapter 7: p. 268-278</td>
<td>MyPsychLab Chapter 7 exam</td>
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<tr>
<td>Nov 21</td>
<td>Memory failures/errors</td>
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<td>Nov 23</td>
<td>Thinking/reasoning I</td>
<td>Chapter 8: p. 283-291</td>
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<tr>
<td>Nov 25</td>
<td>Thinking/reasoning II</td>
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<td>Nov 28</td>
<td>Language I</td>
<td>Chapter 8: p. 292-308</td>
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<tr>
<td>Nov 30</td>
<td>Language II</td>
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<tr>
<td>Dec 2</td>
<td>Review</td>
<td></td>
<td>MyPsychLab Chapter 8 exam</td>
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<tr>
<td>Dec 6-21</td>
<td>FINAL EXAM</td>
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</table>
The final will take place during final exam period, which is decided by the university and announced in late October. Please DO NOT make travel plans for the duration of the exam period (December 6-21) until the final exam is announced. Pre-booked travel will NOT be accepted as a valid reason to miss the final exam.

Acknowledgements
Thanks to Catherine Rawn for the idea of knowledge as academic currency.
Thanks to Michael Souza for advising on course policies.