Course Description
3260.03 (S1/2012) Cognitive Processes

Section: 3260.03
Time: Monday, 7:00 PM-10:00 PM
Wednesday, 7:00 PM-10:00 PM
Rm: VH C

Course Director: Prof. Vinod Goel
Office: 332 BSB/ Lab: BSB 037
Tel: Lab Ext. 30400
Email: vgoel@yorku.ca
Office Hrs: Wed 6:00 – 7:00pm

TA: Ashley Curtis
TA contact info: acurtis@yorku.ca
Office Hrs: TBA

Course Prerequisites: Psych 1010 with a minimum C grade.

Drop Date: June 1, 2012.

Important Note regarding E-Mail/Internet Use: Severe pains in my arms prevent me from excessive typing. Therefore, please do not send me e-mail, except to make an appointment to meet in person. I will not be able to read and respond to it in a timely manner. I’m happy to answer your questions in class, during the tutorial, during my office hours, or make an appointment to meet with you. I will also stay at the end of each lecture to answer individual questions.

General Description: This will be a basic course in the cognitive structures & processes involved in perception, memory, language, thinking, reasoning, & problem solving. We will motivate & explicate the cognitive paradigm, discuss data from the various domains, and examine the models that have been advanced to account for the data. The section will have a cognitive science bias. The objective of the course is to give you an overview of the field of cognitive psychology.

Class Format: There will be two lecture hrs. and one tutorial hr. each week. Tutorials will be devoted to group discussion of readings and lecture material. Specific questions for discussion may be assigned.

Requirements: 1) One assignment (20% of grade)
   • Details attached below.
2) Participation in class exercises & presentations (10% of grade)
   • Details attached below.
3) Three tests (70% of grade)
   • Details attached below.

Text And Articles Required:

[Using older editions of the textbook: there are often used copies of older editions of textbooks available. They contain 95% of information found in the new edition. You may use older editions if you wish. However, before doing so, consider whether you are capable of reading the scheduled lecture topics on the course outline and the table of contents in the textbook and matching them up. If you are capable of doing this and then using an older edition will serve you fine. If you are not capable of doing this on your own, stick to the specified edition.]

**Articles (available on line: http://www.yorku.ca/vgoel/Classes.frame.html)**


*Readings must be completed prior to the relevant class.*

**Assignment (20%):**

*Reasoning Expt.:* You will be given data collected in class and be required to write up the results. Some classroom time has been set aside for the exercise. Details to follow.

**Late Assignments:** Assignments are due at the beginning of class on the day(s) indicated on the attached Schedule. Late assignments will be penalized ONE point per calendar day. As you will always have at least 2-3 weeks to complete an assignment, a doctor's note indicating illness will usually not suffice to waive the penalty. To be considered, a doctor's note must indicate that you were incapable of working for at least half the number of days between the handing out the assignment and the due date. No assignments will be accepted after the last day of class.

**Tests (70%):**

There will be three in-class tests on the dates indicated on the schedule. Each test will have a duration of two hours and will consist of multiple choice questions and written essay questions. The ratio of multiple-choice to written essay questions will not be known in advance. Please do
not ask. The tests will be cumulative. The grade value of each test is indicated on the weekly schedule. The test material will be based on the lectures, the textbook, and the indicated articles.

**Makeup Tests:** I allow students to miss and rewrite one of the tests. There will be one makeup test for each scheduled test. Given the limited number of multiple-choice questions available, there may be few or NO multiple-choice questions on the makeup tests. The makeup tests will consist largely or exclusively of written essay and short answer questions. There is no makeup test for the makeup tests.

**Participation Grade (10%):**
At the end of every lecture each student will write and submit a "2 minute" essay in which you make relevant, cogent remarks and/or ask relevant cogent questions about the lecture material. These will be worth a total of 5 points. Vocal classroom participation will also be worth 5 points. There will be no substitute assignments to make up missed participation grades. Make sure that your schedule and health permit you to attend class and participate in these exercises regularly.

**Grades and Entitlements:**
You are entitled only to the grade that you earn in this course. Nothing else. I will not increase your grade just because "you need at least a x grade to graduate; or you need a y grade to get into some other program; or you need a z grade to maintain your scholarship;" etc. etc.. It is not fair to other students. If you need a certain grade in this course, please do the required work.

**Plagiarism** is the passing off of someone else's words and ideas as you own. This is a very serious academic offense. Do your own assignments and acknowledge all your sources. The penalty for plagiarism will be in accordance with the Senate Policy on Academic Honesty which can be found at the following URL: http://www.yorku.ca/secretariat/policies/document.php?document=69

**Student Feedback:** I welcome constructive comments on course organization, lectures (content, style, presentation), assignments, etc.

**Office Hours:** Make use of the office hours. They are for your benefit.
### Proposed Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topics</th>
<th>Readings</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>1</td>
<td>May 7</td>
<td>Administration/course introduction</td>
<td>Chapter 1</td>
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<td>Articles 1-5</td>
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<td>2</td>
<td>May 9</td>
<td>Introduction and Motivation of cognitive psychology</td>
<td>Chapter 1</td>
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<td>Articles 1-5</td>
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<td>3</td>
<td>May 14</td>
<td>Perception/ Visual</td>
<td>Chapter 3</td>
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<td>4</td>
<td>May 16</td>
<td>Test 1 (25%)</td>
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<td>5</td>
<td>May 21</td>
<td>Categorization</td>
<td>Chapter 7</td>
<td>Reasoning experiment in class</td>
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<td>6</td>
<td>May 23</td>
<td>Memory</td>
<td>Chapters 5, 6, 8</td>
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<td>7</td>
<td>May 28</td>
<td>Language</td>
<td>Chapter 9</td>
<td>Test 1 grades posted</td>
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<td>Articles 6</td>
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<td>8</td>
<td>May 30</td>
<td>Test 2 (25%)</td>
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<td>9</td>
<td>June 4</td>
<td>Problem solving</td>
<td>Chapter 10</td>
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<td>Article 7, 10</td>
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<td>10</td>
<td>June 6</td>
<td>Reasoning</td>
<td>Chapter 10</td>
<td>Reasoning experiment due</td>
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<td>Articles 8, 9, 10</td>
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<td>11</td>
<td>June 11</td>
<td>Neuropsychology of Reasoning</td>
<td>Chapters 2, 10</td>
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<td>Articles 8, 9, 10</td>
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<td>12</td>
<td>June 13</td>
<td>Test 3 (20%)</td>
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*Note: Readings must be completed prior to the relevant class.*