

Psychology C54

Cognition and Representation

Course Outline – Winter 2005

LECTURES: Tue: 7-9 PM Room: SW 128

PreReq: Prerequisite: [PSYB07H or SOCB06H or STAB22H] & a PSYB20-series or a PSYB50-series half-credit
This means a course in statistics and a B level course in cognitive psychology

developmental

INSTRUCTOR: Joseph MacInnes Room: S415
E-Mail: Macinnes@utsc.utoronto.ca
Web-page: www.cs.smu.ca/~jmac
Office Hours: Tue 3-5PM

TEXTBOOK: Course will rely on web material, hand outs, and lecture material.

EVALUATION: Exam Midterm (2): 25% (each)
Assignment (1 or 2): 10%
Final Exam: 40%

TOPICS (as time permits)

- Theory, philosophy and background
- perception and memory, overview and review
- Signal detection (review?)
- Computers and images
- Illusions
- Objects vs Faces
- Metaphor and movies
- cross-cultural
- computer models
- stochastic models
- representations and the blind
- depth and motion
- Development
- Language

IMPORTANT COMMENTS

1. **Rules for Assignments and Quizzes:**
 - 1.1. Marked quizzes will be retained by the instructor.
2. **To pass the course, you must satisfy all of the following conditions:**
 - 2.1. Accumulate at least 50 points in the assignments, exams, and presentation.

2.2. Receive 50% or above average in the exams.

2.3. Receive 40% or above in the final Exam.

3. See the academic calendar for the definitions and consequences of **plagiarism** and other academic offenses.

4. **Rules for cell phones:** Cell phones must either not be brought to class or recitation, or be turned off during the class or recitation period. If you are expecting a telephone call which absolutely *must* be answered during a particular class or recitation time, don't come to that class or recitation. In other words, there is a zero tolerance for cell phones in this course.

The following is a more detailed estimate of when I expect to cover the topics listed in the course outline. For the most part, I expect to get through one section per week, but I reserve the right to spend a bit more time on a topic, if the class seems to need it.

Lecture 1: Introduction; January 10

Lecture 2: Signal Detection Theory; January 17

Lecture 3: Symbols and symbol systems; January 24

Lecture 4: Object representation and semantic memory; January 31

Lecture 5: Midterm 1; Feb 7th

Lecture 6: Symbols and development; Feb 14th

Feb 21st Reading week

Lecture 7: Cross cultural representation; Feb 28st

Lecture 8: Face recognition and representation; also Feb 28th (short lecture)

Lecture 9: 3D and depth representation, and computer models March 7th

Lecture 10: Midterm 2; March 14th

Lecture 11: Altered states and representation; March 21st

Lecture 12: Object and depth representation and the blind Guest lecture John Kennedy. March 28th

Lecture 13: Evidence from neuroscience, April 4th