Final Project: Math and logic in cognitive science.  
Due: 9:05am, 12th Dec.

Choose a topic that you are interested in related to math and logic for cognitive science. For example, possible topics include:

1. Specific models or classes of models related to cognition that use some of the mathematics that we discussed in the course (e.g., subsumption or other robotics architectures, production systems and other knowledge-based AI systems, Bayesian models).
2. A body of mathematical ideas that we did not cover in the course but which plays an important role in cognitive science (e.g., dynamical systems theory, information theory).
3. An area of empirical research in cognitive science that uses some of the mathematics that we discussed in the course (e.g., decision making, reasoning).

Write a paper on this topic, approximately 1000 words (3 pages in length, 1.5 spaced, 12 point font), making sure to discuss how the topic incorporates ideas from math and logic to study cognition. Your paper should also include references (at least four from books, journals, or conference proceedings), demonstrating that you have adequately researched the topic.

Before writing the paper, you should have me approve your topic. This can be done either by sending me a short e-mail or discussing it with me in person.