READING LIST FOR ENTERING GRADUATE STUDENTS
2004

Our graduate program foundations and issues courses are taught at a level that assumes a background similar to that provided by our undergraduate program. This list is a compilation of the textbooks used in undergraduate courses as well as a general reading list to round out the background. Several of the undergraduate courses also use reading packets of numerous journal articles from the field. The list is a guide; there are several other texts and journal articles that could provide the preparation needed for graduate studies.

We don't expect you to go out and read all of these texts. The textbooks are listed just to indicate the material covered in the corresponding courses. Some books listed below are relatively unique to the UCSD way of doing Cognitive Science, and you should probably read them if you haven't. A few of the books are more advanced, and their material overlaps quite a bit with graduate courses in this department.

If this is all very new to you, then we recommend one book on cognitive psychology, one on language, one on experimental design, one on the brain, on programming and/modeling, one on Human-computer interaction.

METHODOLOGY

Design and Analysis of Experiments (Cog Sci 14)
If you have taken any undergraduate courses in statistics and logic, you probably have this covered. Statistics textbooks:

(14)
Introduction to probability theory, statistics and experimental design.

Hinkle, D., Wiersma, W., & Jurs, S. Applied Statistics for the Behavioral Sciences
(5th edition), Boston: Houghton Mufflin

BEHAVIOR

Fundamental Cognitive Phenomena (Cog Sci 101A-B)
Course textbooks:

(101A, B)

Hunt & Ellis, Fundamentals of Cognitive Psychology.


Linguistics and Semantics (Cog Sci 101C)
Introductory linguistics textbooks:

(101C)
Barsalou, L. Cognitive Psychology: An Overview for Cognitive Scientists :Lawrence Erlbaum


Computational linguistics:

Readings in semantics:


Pragmatics, speech act theory, and conversation analysis:

Recommended:

Cognitive Development (Cog Sci 113)
Recommended:


Distributed Cognition, Cognitive Ethnography, and Cognitive Engineering (Cog Sci 102A, B&C)
You should be somewhat familiar with these books, especially the first, obviously. Happily, they are all interesting reading.


**FOUNDATIONS**


**Recommended:**


**BRAIN**

**Neurobiology (Cog Sci 17)**

This requirement is covered by any reasonable undergraduate course in neurobiology.

Course textbook:

(17)

Carlson. *Physiology of Behavior*: Allyn & Bacon

Another good text:


**Cognitive Neuroscience (Cog Sci 107A-B-C)**

Course textbooks:

(107A,B)


**COMPUTATION**

**Programming for Cognitive Science (Cog Sci 18)**

Students entering our Ph.D. program should be able to program in a higher language, e.g. Java. Programming languages frequently used in reach and teaching include but are not limited to, Java, Matlab, C++.

**Computational Modeling and Artificial Intelligence (Cog Sci 108DEF)**

An important early book:


Modern books:


Recommended for students not specializing in computation: