



COMPUTATIONAL NEUROSCIENCE

(ISC 6460 14892, for spring 2004)

CLASS TIME: Tuesday & Thursday 13:00 - 14:20pm

LOCATION: Suite 210, Research Park, Florida Atlantic University

WEB SITE: <http://dove.ccs.fau.edu/~dawei/CNS2004/>

This course is aimed at understanding computational aspects of information processing in the brain. This course covers the basics of computational neuroscience and introduces many research topics of both neurobiological and computational brain. Topics include biophysics of single neurons, associative memory, signal detection and signal reconstruction, information theory, population coding and temporal coding in sensory systems of invertebrates and in primate cortex.

This course is for graduate students who are interested in theoretical and quantitative studies of the biological brain.
