

Spring 2009 Brooklyn College
**Department of Computer
and
Information Science**
will be offering

CIS 725
Information and Computation

Wednesdays
6:05-08:10PM

The following topics will be covered:

- What is information?
- What are good ways to encode information?
- Measures of information: Entropy
- Error-correcting codes
- Kolmogorov complexity
- Different notions of randomness and complexity.

We will be using the following text:

Information and Coding Theory by Gareth A. Jones and J. Mary Jones
(available on the web for less than \$40). There will also be handouts.

Open to

- All masters students who have taken CIS 714 or a class in analysis of algorithms.
- Or undergraduate seniors with a GPA of 3 or above. Contact Prof. Yanofsky yanofsky@sci.brooklyn.cuny.edu.

Students are encouraged to read the following popular non-technical books before the class begins:

- *Grammatical Man: Information, Entropy, Language and Life* by Jeremy Campbell (available in the library: Q360 .C33.)
- *An Introduction to Information Theory* by John R. Pierce
- *The User Illusion: Cutting Consciousness Down to Size* by Tor Norretranders