

Course Announcement

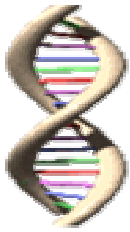
Department of Mathematical Sciences
University of Texas at El Paso

MATH 4370 or CS 4390

Topics in Bioinformatics

SPRING 2004 (January 12 – May 8)

Tues. & Thurs. 3:00 - 4:20 pm



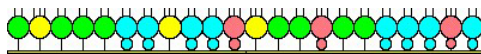
Instructor: Dr. Ming-Ying Leung (Mathematical Sciences)

**Guest Instructors: Drs. Steve Aley and Elizabeth Walsh
(Biological Sciences)**

Objectives: This course introduces an interdisciplinary area of study that combines techniques and knowledge in mathematical, statistical, computational, and life sciences to understand the biological significance of genetic sequence data. With hands-on projects, students will learn to use molecular sequence analysis software and other bioinformatics resources on the Internet for database search, gene prediction, phylogenetic studies, etc. Lectures and class discussions will emphasize probabilistic models and statistical methods in Bioinformatics as well as biological interpretation of computational results.

Prerequisites: Willingness to collaborate with people outside your major field and having completed at least one of the following courses or their equivalents: BIOL3414, 3320, CHEM3325, 4330, 4332, CS3330, 3331, 3432, EE3384, MATH3323, STAT3330, 3381.

Open to students of all disciplines



For more information, please contact Dr. Ming-Ying Leung (Bell Hall 225, Phone: 915-747-6836, mleung@utep.edu) or visit <http://www.bioinformatics.utep.edu/mleung>.