

# Fall 2009

## Biology/CS 123A: Bioinformatics

This practical course, cross-listed with the biology department, provides an introduction to the main public domain tools, databases and methods in bioinformatics, including DNA and protein databases, such as Genbank and PDB, software tools such as BLAST, FASTA, Smith-Waterman; and methods including those for aligning sequences. More precisely, the course analyzes the algorithms behind the most successful tools, such as the local and global sequence alignment packages mentioned above; and the underlying methods used in fragment assembly packages. This course is intended both for biology and computer science students, to work together to solve biological questions.

The course counts as an elective in the Biological Sciences and Computer Science programs.

**Instructor:** Sami Khuri [www.cs.sjsu.edu/faculty/khuri](http://www.cs.sjsu.edu/faculty/khuri)

**Meetings:** Tuesdays and Thursdays 9:00 – 10:15am in DH 450.

**Questions?** Please email the instructor: [khuri@cs.sjsu.edu](mailto:khuri@cs.sjsu.edu)

