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**NEW COURSE:**

**STAT 892 / BIOS 897**

## Computational Molecular Biology

How to make sense of gene expression experiments with 25,000 genes?

How can we evaluate experiments in probabilistic terms?

How to build complex networks of transcriptional regulation?

How can we assess the genome-wide structure of the chromatin?

How to parse 14 million articles as efficiently as the competition?

How can we integrate our results into vast knowledge bases?

How to make novel discoveries inferring from already published experiments?

What is systems biology?

**3 credits:**

Lectures Tuesdays: 2 – 3:15, Computer Lab: Thursdays 2-4:50.

**Course Prerequisites:**

- BIOS 101 General Biology OR
- BIOS 206 General Genetics OR
- BIOC 321 Elements of Biochemistry
- **NO programming or database skills are required.**

This course is designed primarily for biology, agronomy and statistics students. However, computer science, mathematics, physics and chemistry majors also may find it beneficial. This course is designed to benefit both computational and experimental biologists to understand the principles of analyzing biological data, building models and testing hypotheses using powerful computational methods.

**Please contact:**

Prof. Steve (Istvan) Ladunga      and/or  
E204 Beadle, 472-6074  
sladunga@unl.edu

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STAT892 on Blackboard.

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<http://compbio.unl.edu/courses/compbiocourse.html>