

# Computational Biosciences Modeling CBS 521: Spring 2003

## Course Calendar

**01/22** Overview and Discussion:

1. Required reading : Computational Systems Biology, Nature 2002, Nov, Vol 420.
2. Project Planning
3. Lake Tahoe Meeting
4. Internship Planning

**01/24** No lab session

**01/27** Introduction to Optimization: Motivation. Building Evolutionary Trees and Least Squares Methods

**01/28** Talk:

- Dr. Adrienne Scheck
- BNI
- Problem Solving Proposals
- Time: 4:30-6:30
- Place GWC 604

**01/29** Class Cancelled - note attendance on tuesday required.

**01/31** Seminar:

- Erik Andries
- UNM
- Tissue Classification: Challenges in Practice and Implementation
- Time: 10:40-11:30
- Place LSE lab

**02/03** Regina DeSanctis Smith: Pattern Recognition of Lipids.

Continuation of Methods in Least Squares and Linear Programming for Evolutionary Trees.

- 02/05** 10:40-11:30 Professor Wayne Frasch, Molecular Modeling of the F1ATPase Biomolecular Motor. Discussion of Class Projects
- 02/07** 10:40-11:30, LSE 232 Dr Lokesh Joshi, Engineered Protein Therapeutics
- 02/10** Project Proposals : discussions
- 02/12** Project Proposals : presentations
- 02/14** Projects: Team Meetings ,discussion. guidance
- 02/17-02/19** Completion of discussion on least squares methods with constraints. Introduction of Simplex method for minimum evolution trees.
- 02/21** GELS poster presentations of life science problems, Carson Room, MU, please register to attend. 8:30-5pm. Advertisements will follow. See the web page already - <http://www.asu.edu/clubs/gels/2003symposium.html>.
- 02/24** Lake Tahoe Meeting. No Class Session
- 02/26** 11:40-12:30, LSE 232 Dr Rick Archibald, An interface for improved segmentation of MRI images.
- 02/28** Student updates on project work (potential trip to UoA would cancel this session)
- 03/03** Introduction to Clustering Algorithms
- 03/05** Student Session
- 03/10**
- 03/12** Student Session
- 03/17-03/21** Spring Break
- 03/24** Presentation of Fall Class– Hans Mittelmann
- 03/28** No Lab session
- 04/14-04/30** Student Presentations
- 04/30** Last Class Period