August 31  Introduction: Course aim and mechanics
Molecular forces, solvent, thermodynamics

**Biological macromolecules**
Sept. 2  Proteins: Amino acid structure and chemistry
Sept. 7-9  Membrane Proteins
Sept. 14-16  (guest lecturer: Dr. Debra Kendall)
Sept. 21 - 23  Protein Complexes
Sept. 28  Protein purification, polypeptide and protein identification
Sept. 30  Exam 1
Oct. 5 - 7  Structure Determination
Oct. 12 - 14  Carbohydrates
Oct. 19 - 21  Nucleic Acids:
  - Nucleotides, regular double helical structures of DNA and RNA
  - Nucleic acid chemistry
Oct. 26 - 28  Protein-nucleic acid interactions:
  - General principles of sequence specific interactions
  - DNA binding motifs
  - Methods for characterizing protein-nucleic acid interactions

**Analysis of biomolecular structure and interactions**
Nov. 2  Mass spectroscopy
Nov. 4  Exam 2
Nov. 9  Light Scattering
Nov. 11  Calorimetry
Nov. 16-18  Analytical ultracentrifugation

**Enzymes**
Nov. 30 - Dec. 2  Principles of catalysis and structural features
Dec. 7  Kinetics and mechanisms
Dec. 9  Enzyme regulation: protein kinases
Instructors: Victoria Robinson (BPB 204, x4353) and Jim Cole (BPP 205, x4333)

Meeting Times: Tuesdays and Thursdays 11-12:15 in TLS 301

Exam Dates: September 30, November 4, and Final Exam on December 14. Students are required to be available for their final exam during the stated time. If you have a conflict with this time you must visit the Office of Student Services and Advocacy to discuss the possibility of rescheduling this exam.

Homework: There will be four homework assignments

Office Hours: By appointment

Useful Texts / Background Information
Proteins-Structures and Molecular Properties by Thomas E. Creighton


Academic Integrity and Community Standards

We will enforce the University of Connecticut policies regarding academic integrity and community standards. In particular, incidents of cheating or plagiarism will not be tolerated and will result in failure of the course. or definitions and policies regarding academic misconduct see:
http://www.community.uconn.edu/academic_integrity.html