



CHEMISTRY 365 BIOCHEMISTRY
Lab Schedule Spring 2004

SCHEDULE OF PROJECTS

<u>DATES</u>	<u>PROJECT</u>
1/20, 1/21	Check-in , Introduction
1/27, 1/28	Tables and Figures with a Spreadsheet (Lab #1 25 pts)
2/3, 2/4	Visible spectrophotometry; standards; ninhydrin method for amino acids(Lab #2 25 pts)
2/10, 2/11	Spectrophotometry; unknown analysis; linear regression and graphing; Bradford assay for proteins(Lab #3 25 pts)
2/17, 2/18	Analysis of phosphates; High and low energy of hydrolysis compounds (Lab #4 25 pts)
2/24, 2/25	Isolation of DNA; cell structure (Lab #5 25 pts)
3/2, 3/3	Team Project #1 (30 pts) - Protein isolation; purification; precipitation; gel permeation chromatography
3/9, 3/10	Team Project #2 (50 pts) - Buffer preparation, Enzyme kinetics, specific activity
3/16, 3/17	Team Project #2 - Enzyme kinetics, Michaelis-Menten analysis of kinetic data
4/6, 4/7	Team Project #3 (50 pts) - Analysis of a saccharide; absorption spectra; Spectrophotometric determination of hexose and pentose components
4/13, 4/14	Team Project #3 - Analysis of a saccharide; Thin-layer chromatography of hydrolysis products
4/20, 4/21	Characterization of a Triglyceride Mixture - Average Molecular Weight, Average Degree of Unsaturation, Gas Chromatography of fatty acid esters (Lab #6 25 pts)
4/27, 4/28	Nucleic acid and protein sequencing (Lab #7 25 pts)
5/4, 5/5	Check out of lab, Evaluations