

Chemistry 360L
Biochemistry Laboratory

Fall Semester 1999
Wednesday 2:00-4:50 pm

Instructor: F. David Horgen, Ph.D.
office! **Henry Hall #2**
Phone: 739-4642
Office hours: TR 8:50-9:50 am; W 12:00 noon-1:00 pm; and by appointment.
Lab manual: Handouts will be provided for each experiment at least one week prior to the scheduled date.

Objectives

To introduce the students to basic concepts and selected techniques of modern biochemistry.

Grading

Grades will be assigned based on your laboratory reports (50%), quiz scores (30%), and instructor evaluations (20%). Reports are due one week after completion of the experiments. Quizzes will be given at the beginning of each lab period.

Requirements

CLOSED SHOES, NOT SANDALS OR SLIPPERS MUST BE WORN AT ALL TIMES!

SAFETY GOGGLES MUST BE WORN AT ALL TIMES!

NO UNEXCUSED ABSENCES! (FOR EXCUSED ABSENCES, SEE THE INSTRUCTOR BEFORHAND).

It is expected that you have read and understood the experimental procedure and background material before the laboratory session begins.

Schedule for CH 360L Biochemistry Laboratory Fall 1999

date	experiment
09.08	Orientation
09.15	Basic techniques: buffers and spectrometric determination of p-nitrophenol concentrations
09.22	Basic techniques: principles of microbiology
09.29	Amino acid analysis of a dipeptide (part 1)
10.06	Amino acid analysis of a dipeptide (part 2)
10.13	Amino acid analysis of a dipeptide (part 3)
10.20	Principles of enzyme catalysis
10.27	Isolation of E. coli chromosomal DNA (part 1)
11.03	Isolation of E. coli chromosomal DNA (part 2)
11.10	Polymerase chain reaction (PCR) experiment (part 1)
11.17	Polymerase chain reaction (PCR) experiment (part 2)
11.24	Transformation of E. coli with plasmid coding for green and blue fluorescent proteins
12.01	Purification and size determination of green and blue fluorescent proteins (part 1)
12.08	Purification and size determination of green and blue fluorescent proteins (part 2)