

Biochemistry 354
Fall 2011

Time	Instructor	e-mail	Phone
Wednesday 2:00-5:00	Forconi	forconim@cofc.edu	953-3616

Schedule:

Week of	Experiment
Aug 24	No lab
Aug 31	Virtual Lab: Structural Database Assignment (Parts 1 and 2) Obtain the handout for this lab from the lab handout folder on the Oaks site for this class Prelab reading assignment: read the two short commentaries on the Oaks site
Sep 7	Using Pipettors/ TLC of Amino Acids Prelab Reading Assignment Chapter 1 – Biochemistry Boot Camp (pages 1-36)
Sep 14	Beer's Law and Absorption Spectra Prelab Reading Assignment pages 63-81
Sep 21	Carbohydrates Obtain the handout for this lab from the lab handout folder
Sep 28	Buffer Preparation Prelab Reading Assignment - Pages 37-62
Oct 5	LDH Kinetics Prelab Reading Assignment 94-100, 111-112, 211-220, 231-238
Oct 12	Transformation and Growth of Barracuda LDH in E. coli Prelab Reading Assignment pages 313-330
Oct 19	Plasmid Prep and DNA Gel analysis of plasmid Prelab Reading Assignment 336-338; 239-242
Oct 26	LDH Extraction Prelab Reading Assignment 89-100, 109-120
Nov 2	I. LDH Q Sepharose Ion Exchange Chromatography Prelab Reading Assignment 121-143, 145-152
	II. LDH Specific Activity and Concentration Prelab Reading Assignment 98-100, 104, 106-107, 205
Nov 9	II. LDH Q Sepharose Ion Exchange Chromatography Prelab Reading Assignment 121-143, 145-152
	I. LDH Specific Activity and Concentration Prelab Reading Assignment 98-100, 104, 106-107, 205

Nov 16	SDS Page of Overexpression and of LDH Purification
Nov 30	Final Exam

Textbook: Experiments in Biochemistry. A Hands-On Approach 2nd. Ed. by Farrell and Taylor, Brooks/Cole, 2006

Grading:

Pre-Lab Exercises: Associated with each lab is Pre-Lab exercise which is due at the beginning of each lab period. It must be handed in at the beginning of each lab period or no credit can be given. The Pre-Lab exercises count for 10% of your final grade.

Lab Reports: Associated with each lab is a lab report which is due the week after the lab is completed. Lab reports count 55% of your grade. No late reports will be accepted.

Final Exam: The final exam is cumulative, will cover the theory from assigned readings and the manipulation of data similar to those collected during experiments and will count as 35% of your grade.

Laboratory Notebooks: You must keep a traditional bound laboratory notebook with all entries in ink. All data must be recorded directly into the notebook during the lab period. Samples of all calculations should be recorded. You may wish to record other helpful information as well. Notebooks will not be graded, but will be available for reference purposes during the final exam.

Grade Ranges

A	93-100	C	73-76
A-	90-92	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	0-59

Please note: No grades will be registered until the biochemistry lab is CLEAN at the end of the semester; clean all glassware as you use it and return it to its proper location.