

INTRODUCTORY BIOCHEMISTRY LABORATORY

01:694:313 Spring 2009

Course Coordinator:

Dr. Frank Deis, Nelson A-311, deis@rci.rutgers.edu

Teaching Assistants (Lab Instructors):

Jamie Joseph, jmjoseph@rci.rutgers.edu

Barbara Wilimczyk, basiaw@rci.rutgers.edu

Laboratory Meets in Nelson B-437 from 1:00 to 4:00 PM

Text: Experimental Biochemistry by Switzer and Garrity, 3rd Edition

Tentative Syllabus:

January 27th Course Introduction and Photometry (Experiment 1)

February 3rd Lowry Protein Assay (Experiment)

February 10th Chromatography (Experiment 2)

February 17th Electrophoresis I (Experiment 4)

February 24th Electrophoresis II (Experiment 4)

March 3rd Mid-Term (January 27th-February 24th Labs)

March 10th Bioinformatics (Note: Class held in Nelson B-125)

March 17th Spring Break-NO CLASS

March 24th Carbohydrates (Experiment 12)

March 31st Galactosidase Inhibition (Experiment 7)

April 7th Galactosidase K_m (Experiment 7)

April 14th Sequencing Videos and Handouts (Note: Class held in Nelson B-228)

April 21st Final (March 10th-April 14th Labs)

Laboratory attendance is required. Absences will cause your grade to be lowered. **There is no make-up lab.** Students are required to provide documentation for any absence to obtain credit for lab. Students will be working in groups of four. Although handouts will be provided for most labs, each group is required to have at least one textbook. Lab notebooks will be checked each lab period. Laboratory work requires that your work is checked as satisfactory by the Lab Instructor before you leave. Lab grades are determined by the Lab Instructor. Lab quiz scores, lab reports,

attendance and overall performance will be considered in determining the course grade. Please be considerate and clean your area and your glassware before you leave!

Laboratory Rules:

1. Report all accidents and unsafe conditions immediately to your Laboratory Instructor.
2. Know the location of the safety shower and eyewash stations. If a chemical is splashed in the eyes or on the skin, immediately flush the affected area with water for at least 30 minutes and remove contaminated clothing.
3. Wear Eye Protection in the Laboratory when instructed to do so. Splash-proof safety goggles are required when transferring potentially dangerous solutions.
4. Wear the proper clothes to protect the body against chemical spills, etc. Do not wear bare midribs, shorts, short skirts, **open-toed shoes**, or sandals/flip-flops in the Laboratory. **Students who arrive improperly dressed for lab will be sent away and will lose credit for the lab.**
5. **Do NOT eat, drink, smoke, chew gum**, or apply cosmetics in the laboratory.
6. Wash hands frequently when handling chemicals and before leaving the laboratory. Remove gloves prior to leaving the laboratory.
7. **Do not touch any equipment unless instructed to do so.**
8. Bring a notebook or binder with paper to lab. All work will be done in your lab notebook and signed by your Laboratory Instructor at the end of each Lab. The signed assignments will be checked by your Instructor at the time of your Final.
9. **There will be no Food or Drinks allowed within the laboratory. Do not throw away any of your food or beverage containers in the laboratory garbage. Please dispose of everything outside of the laboratory.**
10. The class will be divided into groups of 4. Each group will have a clean up list that must be completed and signed by the Laboratory Instructor before you will be released from the lab. It is the responsibility of every student to clean the bench tops and glassware they are using.
11. **Point Distribution of Grades**
In Class Assignments 50 points
Mid-Term 40 points
Final 40 points
Lab Report 20 points
Total 150 points
12. Lab Reports are to be typed, double spaced, with Times New Roman 12 pt font. Lab Reports will be due at the **beginning of Lab the week of April 14th**. You will receive the graded Lab Reports at the time of your Final. Late Reports will have point deductions. **No Reports will be accepted after April 17th.**
13. Lateness to Lab is not acceptable. Please arrive on time to Lab. Points will be deducted from your In Class Assignments for continued lateness. It is also at the discretion of your Laboratory Instructor to send you away from lab due to extreme lateness.