

CHEM 3820: Biochemistry Laboratory**Instructor:** Bruce E. Bowler**Office:** SGM 251**Phone:** 871-2985**Email:** bbowler@du.edu**Text:** R. K. Scopes, Protein Purification, 3rd edition.**Teaching Assistant:** Tia Wallace, SGM 267**Course Outline**

Date	Experiment	Reading & Assignments
Week 1		
Jan. 4	Expt. 1 , Isolation and Purification of Yeast Iso-1-cytochrome <i>c</i> , Part A.	Scopes, Chap. 2
Jan. 5	Expt. 1 , Part A/B.	Scopes, 4.1-4.3
Week 2		
Jan. 11	Expt. 1 , Part C.	Scopes, 1.3, 5.3, 6.1, 6.2
Jan. 12	Expt. 1 , Part C/D.	Scopes, 1.4, 8.4
Week 3		
Jan. 18	Expt. 1 , Part D.	Scopes, 8.1
Jan. 19	Expt. 2 , Lowry Analysis of the Protein Content of Purified Yeast Iso-1- Cytochrome <i>c</i> .	Scopes, 3.1 Lab Report Expt. 1 (Parts A-C) due. 150 points
Week 4		
Jan. 25	Expt. 3 , SDS-polyacrylamide Gel Electrophoresis of Yeast Iso-1- Cytochrome <i>c</i> , Part A.	Scopes, 8.2 Lab Report Expt. 1 (Part D) due. 100 points
Jan. 26	Expt. 3 , Part B.	Scopes, 11.1
Week 5		
Feb. 1	Expt. 4 , Equilibrium Unfolding of Cytochrome <i>c</i> by Guanidine-HCl, Part A.	Lab Report Expt. 2 due. 100 points
Feb. 2	Expt. 4 , Part B.	

Week 6 Feb. 8	Expt. 4, Part C.	Lab Report Expt. 3 due. 100 points
Feb. 9	Expt. 5, Electrochemical Characterization of Iso-1- cytochrome <i>c</i> using the method of mixtures	
Week 7 Feb. 15	Expt. 6, Enzyme Kinetics, Alkaline phosphatase, Part A.	Lab Report Expt. 4 due. 150 points
Feb. 16	Expt. 6, Part B.	
Week 8 Feb. 22	Expt. 6, Part C.	Lab Report Expt. 5 due. 100 points
Feb. 23	Expt. 7, Lactate Dehydrogenase, Part A.	
Week 9 March 1	Expt. 7, Part B.	Lab Report Expt. 6 due. 150 points
March 2	Expt. 7, Part C.	
Week 10 March 8/9		Lab Report Expt. 7 due. 150 points

Grading: The total number of points possible is 1000.