CHEM 455 BIOCHEMISTRY LABORATORY Spring Semester 2014 Prof. Jung-Hyun Min (2210A SEL), Phone: 312-355-0838, E-mail: jhmin@uic.edu

Dates	Lab Period 1	Lab Period 2
	(Monday or Tuesday)	(Wednesday or Thursday)
1/13-1/17	Check in and Introduction	Pipette Calibration
1/20-1/24	No class	DNA Isolation and Restriction Enzyme Digest
1/27-1/31	Electrophoresis	PCR
2/3-2/7	PCR, Electrophoresis, and Buffer Preparation	Gel Filtration Chromatography
2/10-2/14	Ion Exchange Chromatography/Introduction	Ion Exchange Chromatography
2/17-2/21	Ion Exchange Chromatography	Protein Concentration Determination and SDS-PAGE
2/24-2/28	β-lactamase Activity Assay	Bioinformatics/Primer Design/PCR Mutagenesis
3/3-3/7	PCR Fragment Purification	PCR Fragment Purification and Restriction Digest
3/10-3/14	Restriction Fragment Purification/Ligation/Agar Plate Preparation	DNA Transformation
3/17-3/21	Colony Screening (DNA Isolation and Restriction Digest)	Verifying Mutations by Restriction Digest
3/24-3/28	Spring Break	
3/31-4/4	Protein Purification and Dialysis	Gel Filtration Chromatography
4/7-4/11	Ion Exchange Chromatography	Ion Exchange Chromatography
4/14-4/18	BCA Analysis and SDS-PAGE	Activity Assay
4/21-4/25	Activity Assay	Activity Assay
4/28-5/2	Oral Presentation	
	1/13-1/17 1/20-1/24 1/27-1/31 2/3-2/7 2/10-2/14 2/17-2/21 2/24-2/28 3/3-3/7 3/10-3/14 3/17-3/21 3/24-3/28 3/31-4/4 4/7-4/11 4/14-4/18 4/21-4/25	DatesLab Period 1 (Monday or Tuesday)1/13-1/17Check in and Introduction1/20-1/24No class1/27-1/31Electrophoresis2/3-2/7PCR, Electrophoresis, and Buffer Preparation2/10-2/14Ion Exchange Chromatography/Introduction2/17-2/21Ion Exchange Chromatography2/24-2/28β-lactamase Activity Assay3/3-3/7PCR Fragment Purification3/10-3/14Restriction Fragment Purification/Ligation/Agar Plate Preparation3/17-3/21Isolation and Restriction Digest)3/24-3/28Spring3/31-4/4Protein Purification and Dialysis4/7-4/11Ion Exchange Chromatography4/14-4/18BCA Analysis and SDS-PAGE4/21-4/25Activity Assay

LAB SCHEDULE 2014

Final Lab Report Due in Lab Period 1, Week 16 (Mon. or Tues., 4/28-29).