

# Electrochemistry Lab Expectations and Grading (**Due April 21, 2022**)

Chem 113000-2: Section-33

April 11, 2022

## 1 General Remarks

This can be handwritten or typed, though typed is easier to read/grade. Or, some portions can be handwritten and some can be typed. Though, you may run out of space if you try and hand write it. If it is handwritten, make sure that it is legible and the scan is readable. Note this assignment is due Thursday **April 21, 2021** at 5:30 pm.

**In general, this is a ‘fill in the blank’ worksheet! Also, don’t worry about significant figures! Just use a reasonable amount of digits for your answer (maybe 3-4?).** If something still doesn’t make sense, please email me!

## 2 Pre-Lab Questions (20 points)

Each question is worth 10 points. For question 1, use the appendix of ‘Principles of Modern Chemistry.’

## 3 Experiment and Analysis (65 points)

Standard Potentials are worth 7.5 points each. Calculation of silver concentrations is worth 5 points each. Equilibrium constants are worth 7.5 points each. Please show your work where directed to do so, and fill in the tables as well. For the equilibrium constants, please **box your answers** so that I can quickly find that. See the lab manual for how to compute each of these values; though, please let me know if you are still confused!

## 4 Discussion (15 points)

Each question is worth 5 points each. Question 1 is familiar and straightforward. Make sure to cite any sources that you reference  $K_{eq}$  values from. For question 2, you should show your work and logic on what the voltage of the cell should be. For question 3, make sure to be

clear on what will happen. It does not need to be an in-depth answer, but should not be a single sentence. You should also explain why something happens.