

## CH-101 Practicum Study Guide (2019)

**Students: Your practicum will consist of 6 stations. You will have 16 minutes per station. This week we will collect your goggles to use next week during the practicum. Be sure to come appropriately dressed and bring a pencil/pen and a non-programmable calculator.**

**Below is a list of the techniques and concepts studied throughout the semester which will be tested in the practicum.**

**Remember the practicum is worth 30% of your lab grade and CANNOT be dropped.**

1. Appropriate use of equipment
2. Reading IV bags for electrolytes
3. Identification tests in solutions, colloids and suspensions lab and alcohols, ketones and aldehydes
4. Dosage Calculations (Dimensional Analysis, Ratio & Proportion, and Formula methods)
5. Draw 1°, 2°, and 3° alcohols
6. Reading equipment accurately
7. Naming of laboratory equipment
8. Strong, weak, and nonelectrolytes
9. Make a solution and calculate % concentration (m/m or m/v)
10. Reactions of hydrocarbons and alcohols. Be able to interpret results and identify hydrocarbons as alkanes or alkenes and alcohols as 1°, 2°, and 3° by observation of chemical tests
11. Density of an unknown solid
12. Chemical reactions, observations, balancing, identifying types of reactions
13. Be able to build, draw, and name isomers given a molecular formula (hydrocarbon)
14. Be able to build, draw, and name models of organic compounds (alkanes, alkenes, alcohols, aldehydes or ketones)
15. Calculate theoretical yield of a NaCl synthesis.
16. Be able to interpret a graph of enzyme activity.(i.e., temperature vs. enzyme activity/rate of reaction)
17. Calculate diluted volume or Molarity using  $M_1V_1 = M_2V_2$